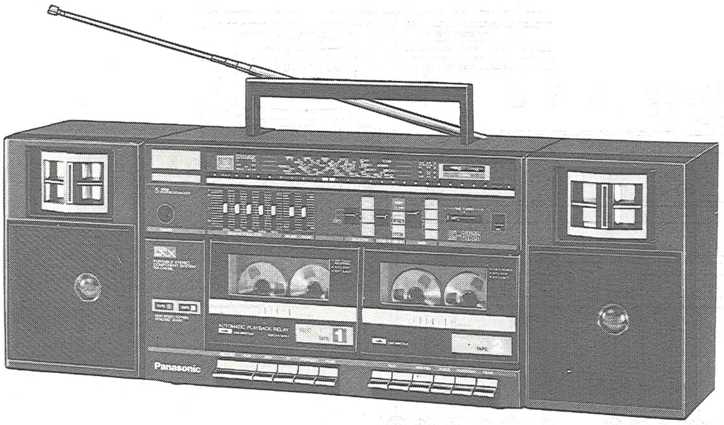
ORDER NO. GAD8611074C8

Service Manual

Portable Stereo Component System

Radio Cassette
RX-CW26L
(Black)



This is the Service Manual for the following areas.

- Z ...For all European areas except E F I G.
- E ...For United Kingdom.
- F ...For France.
- I ...For Italy and Finland.
- G ...For F.R. Germany.
- CH ...For Chile.

RX-CW30 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	AC; Z F I G CH ...220 V, 50 Hz E ...240 V, 50 Hz Battery; 9 V (Six "D" Size Flashlight Batteries) Z E F I G... (Panasonic UM-1 or equivalent) CH ...(National UM-1 or equivalent)
Power Consumption:	20 W (AC only)
Power Output:	8 W (4 W×2)...RMS (max.) 10 W (5 W×2)...PMPO
Speaker:	Woofer; 12 cm PM Dynamic Speaker (3 Ω) Tweeter; 2 cm×4 cm Ceramic Speaker (1.4 kΩ)
Input:	LINE IN; sensitivity 200 mV/50 kΩ over
Output:	EXT SP; 2.7~8Ω HEADPHONES; 32Ω (Ø3.5)
Dimensions:	Total Size 559 (W)×194 (H)×154 (D) mm Main Unit 314 (W)×194 (H)×154 (D) mm Speaker Box 125 (W)×194 (H)×132 (D) mm
Weight:	3.8 kg without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5~108 MHz LW; 148.5~285 kHz (2000~1060 m) MW; 520~1610 kHz (577~186 m) SW; 5.9~18 MHz (50.8~16.7 m)
Intermediate Frequency:	FM; 10.7 MHz AM (LW/MW/SW); 455 kHz
Sensitivity:	FM; 4 µV/50 mW output (−3 dB Limit sens.) LW; 158 µV/m/50 mW output MW; 80 µV/m/50 mW output SW; 10 µV/50 mW output

Tape Deck Section:	**Tape 1**
Frequency Response:	50~13,000 Hz (with normal tape)
Recording System:	AC bias, Magnet erase
Tape Speed:	4.8 cm/s
Track System:	4-track 2-channel stereo recording and playback

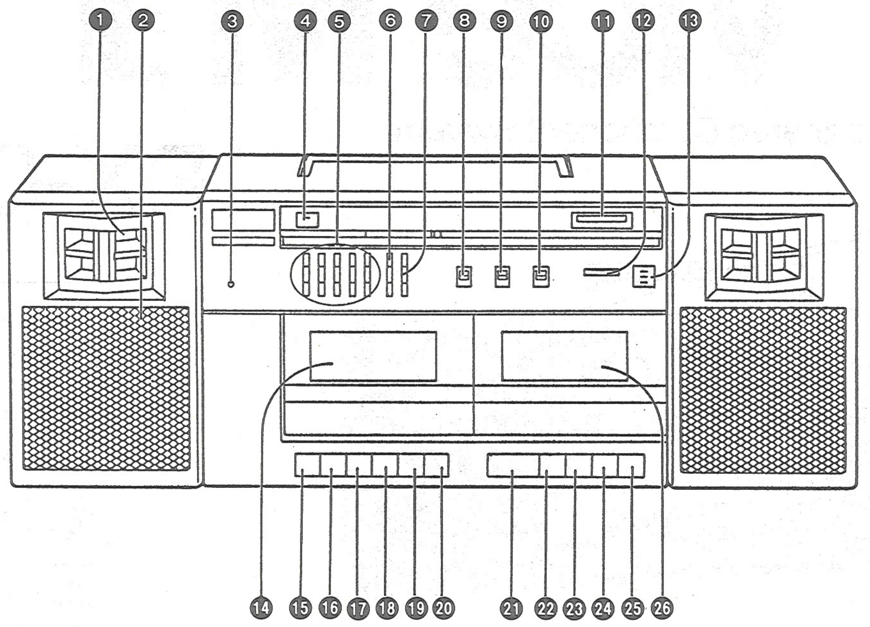
Tape Deck Section:	**Tape 2**
Frequency Response:	50~13,000 Hz (with normal tape)
Tape Speed:	4.8 cm/s
Track System:	4-track 2-channel stereo playback

Design and specifications are subject to change without notice.

National / Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS



① Speakers (Tweeter) **2 cm×4 cm, 1.4 kΩ**

② Speakers (Woofer) **12 cm, 3Ω**

③ Headphones Jack (PHONES) **32Ω, ∅3.5**

When using the headphones, avoid listening to sound for a long period of time at excessive volume levels, which may injure your ears.

④ FM Stereo Indicator (FM STEREO)

⑤ Graphic Equalizer Controls (GRAPHIC EQUALIZER)

⑥ Balance Control (BALANCE)

⑦ Volume Control (VOLUME)

⑧ Function Selector (SELECTOR)

⑨ Editing/FM Mode Selector/Beat Proof Switch (EDITING/FM MODE/B.P)

⑩ Band Selector (BAND)

⑪ Tuning Control (TUNING)

⑫ Fine Tuning Control (FINE TUNING)

⑬ Built-in Microphone (MIC)

Tape 1 (For Recording and Playback)

⑭ Cassette Compartment

⑮ Record Button (● RECORD)

⑯ Playback Button (▶ PLAY)

⑰ Rewind Button (◀◀ REW)

⑱ Fast Forward Button (▶▶ FF)

⑲ Stop/Eject Button (■/▲ STOP/EJECT)

⑳ Pause Button (❚❚ PAUSE)

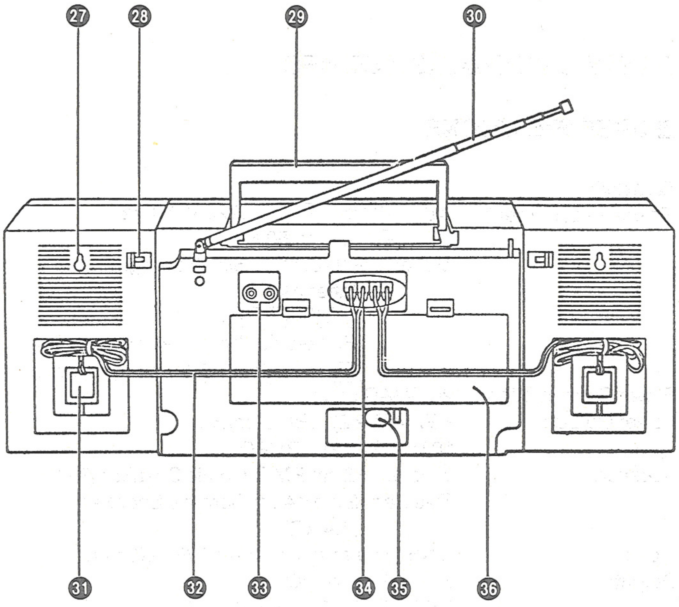
Tape 2 (For Playback)

㉑ Playback Button (▶ PLAY)

㉒ Rewind/Review Button (◀◀ REW/REV)

㉓ Fast Forward/Cue Button (▶▶ FF/CUE)

㉔ Stop/Eject Button (■/▲ STOP/EJECT)



㉕ Pause Button (❚❚ PAUSE)

㉖ Cassette Compartment

㉗ Speaker Wall Mounts

㉘ Speaker Release Levers (RELEASE)

㉙ Handle

㉚ Telescopic Antenna

㉛ Speaker Cable Compartments

㉜ Speaker Cables

㉝ Line Input Jacks (LINE IN) **200 mV, 50 kΩ**

㉞ Speaker Terminals (SPEAKER IMP 2.7–8Ω)

㉟ AC Socket (AC IN ~)

㊱ Battery Compartment

D

DISASSEMBLY INSTRUCTIONS

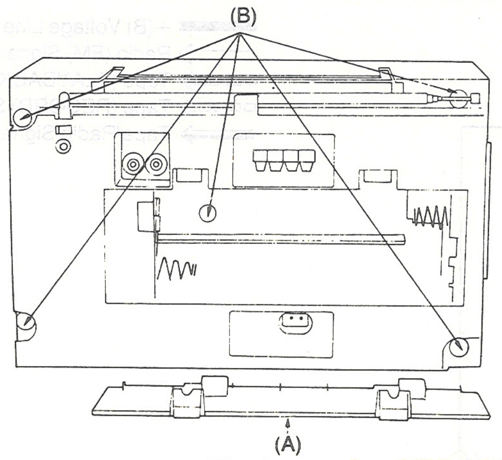


Fig. 1

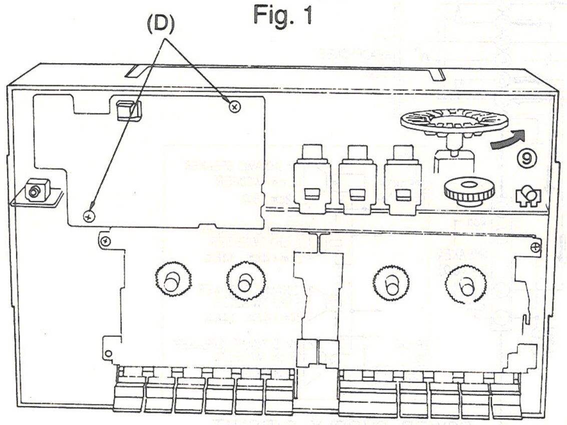


Fig. 3

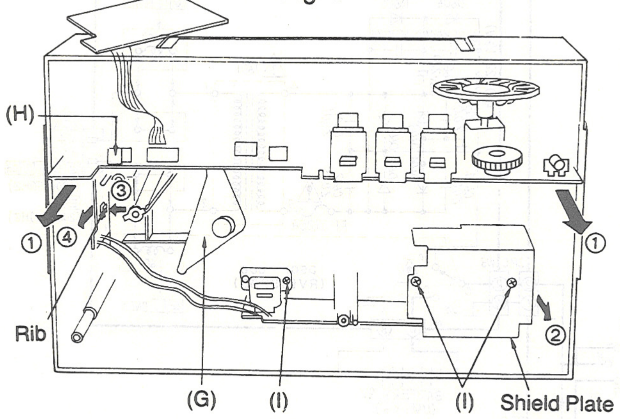
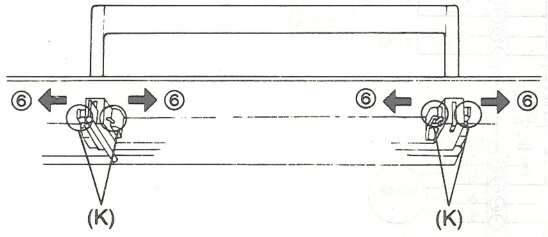

(H)
③
④
①
①
②
Rib
(G)
(I)
(I)
Shield Plate

Fig. 5



(Rear Cabinet In Side)

Fig. 7

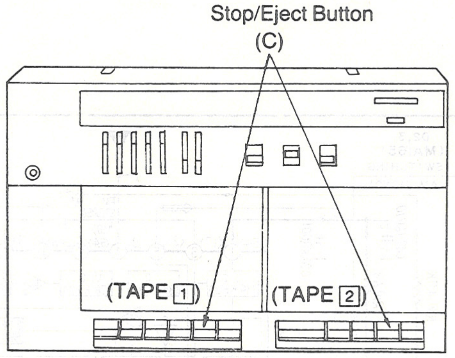

Stop/Eject Button
(C)
(TAPE 1)
(TAPE 2)

Fig. 2

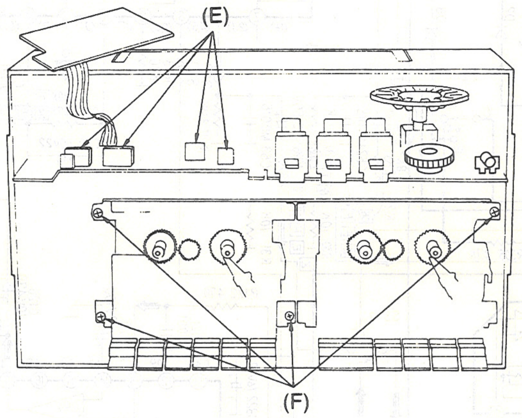


Fig. 4

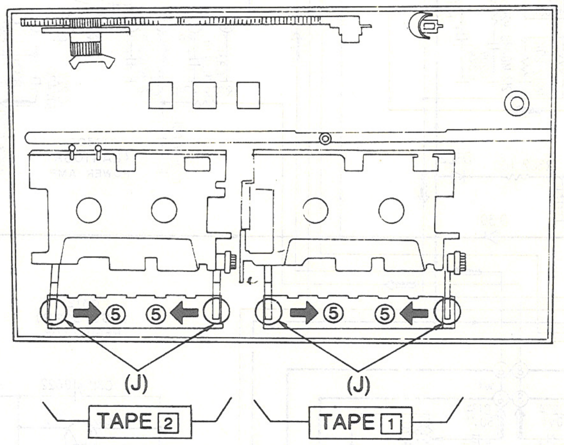

⑤
⑤
⑤
⑤
(J)
(J)
TAPE 2
TAPE 1

Fig. 6

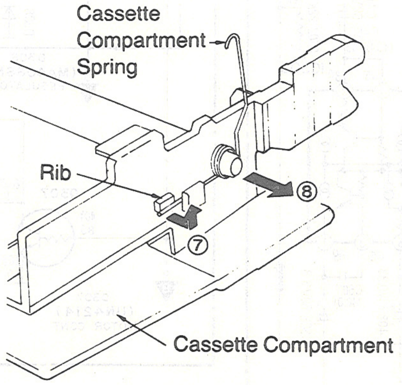

Cassette Compartment Spring
Rib
⑦
⑧
Cassette Compartment

Fig. 8

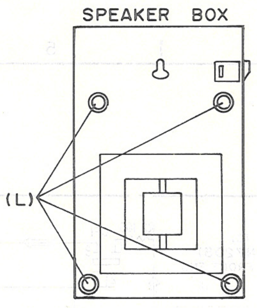
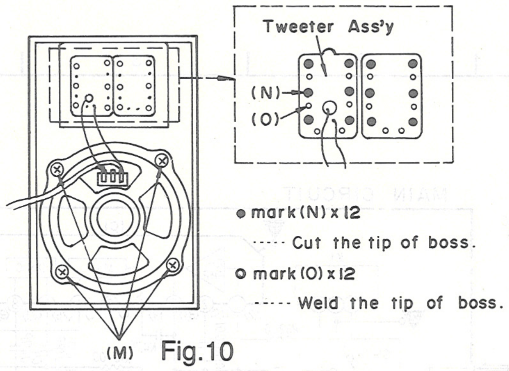

SPEAKER BOX
(L)

Fig. 9


Tweeter Ass'y
(N)
(O)
(M)

● mark (N) x 12

----- Cut the tip of boss.

○ mark (O) x 12

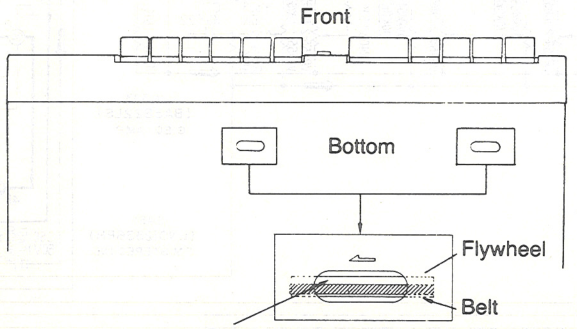
----- Weld the tip of boss.

Fig.10

Steps	Shown in Fig.—.	To remove —.	Remove —.
1	1	Front Cabinet Ass'y	Remove the battery compartment .... (A)×1
2	1		Screw (3×40) mm .... (B)×5
3	2		Push the Stop/Eject button (Tape 1 & 2) .... (C)×2
4	3	Graphic EQ Circuit Board	Screw (3×12) mm .... (D)×2
5	4	Mechanism Unit (Tape 1 & 2)	Socket .... (E)×4
6	4		Screw (3×12) mm .... (F)×4
7	5	Main Circuit Board	Record/plabyack lever .... (G)×1
8	5		Socket .... (H)×1
9	5		Pull out the main circuit board in the direction of arrow ①.
10	5	Power Supply Circuit Board and Battery Circuit Board	Screw (3×12) mm .... (I)×3
11	5		Pull out the shield plate in the direction of arrow ②.
12	5		Push rib in the direction of the arrow ③ and remove the battery circuit board in the direction of the arrow ④.
13	6	Cassette Compartment Cover (Tape 1 & 2)	Remove the cassette compartment cover by pulling one side at a time toward the front of the set while pushing it with a standard screwdriver in the direction of the arrow ⑤ .... (J)×4
14	7	Handle	Remove the rib in the direction of the arrow ⑥ .... (K)×4
15	8	Cassette Compartment Spring	Remove the rib in the direction of the arrow ⑦.
16	8		Remove the spring in the direction of the arrow ⑧.
17	9	Speaker (Woofer)	Screw (3×18) mm .... (L)×4
18	10		Screw (3×8) mm .... (M)×4
19	10	Tweeter Ass'y and Ornament Plate	Cut the tip of boss with a cutter .... (N)×12

■ HOW TO REMOVE A TANGLED TAPE

- Turn the flywheel in the direction of the arrow with a screwdriver or similar tool inserted from the bottom of the cabinet. (Fig. 11)
  Be careful not to damage the drive belt. Be sure to apply the screwdriver directly to the flywheel to turn the flywheel. (Do not push on the belt to turn the wheel.)


Front
Bottom
Front
Flywheel
Belt

Press directly on the exposed flywheel.
Do not press on the belt.

Fig. 11

■ 0 (ZERO) POINT ADJUSTMENT

1. Line up the dial point in the front cabinet assembly with the "0" point graduation as shown in Fig. 12.
2. Turn the variable capacitor gear on the main circuit board all the way in the direction of arrow ⑨. (Fig. 3)
3. Next, assemble the front and rear cabinets, and the 0 (zero) point adjustment is complete.

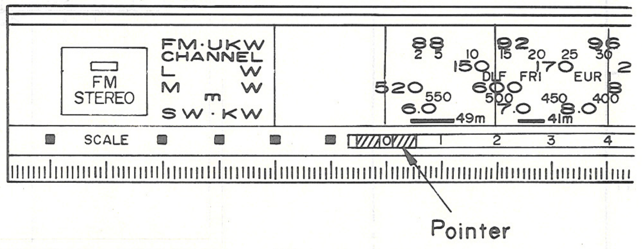
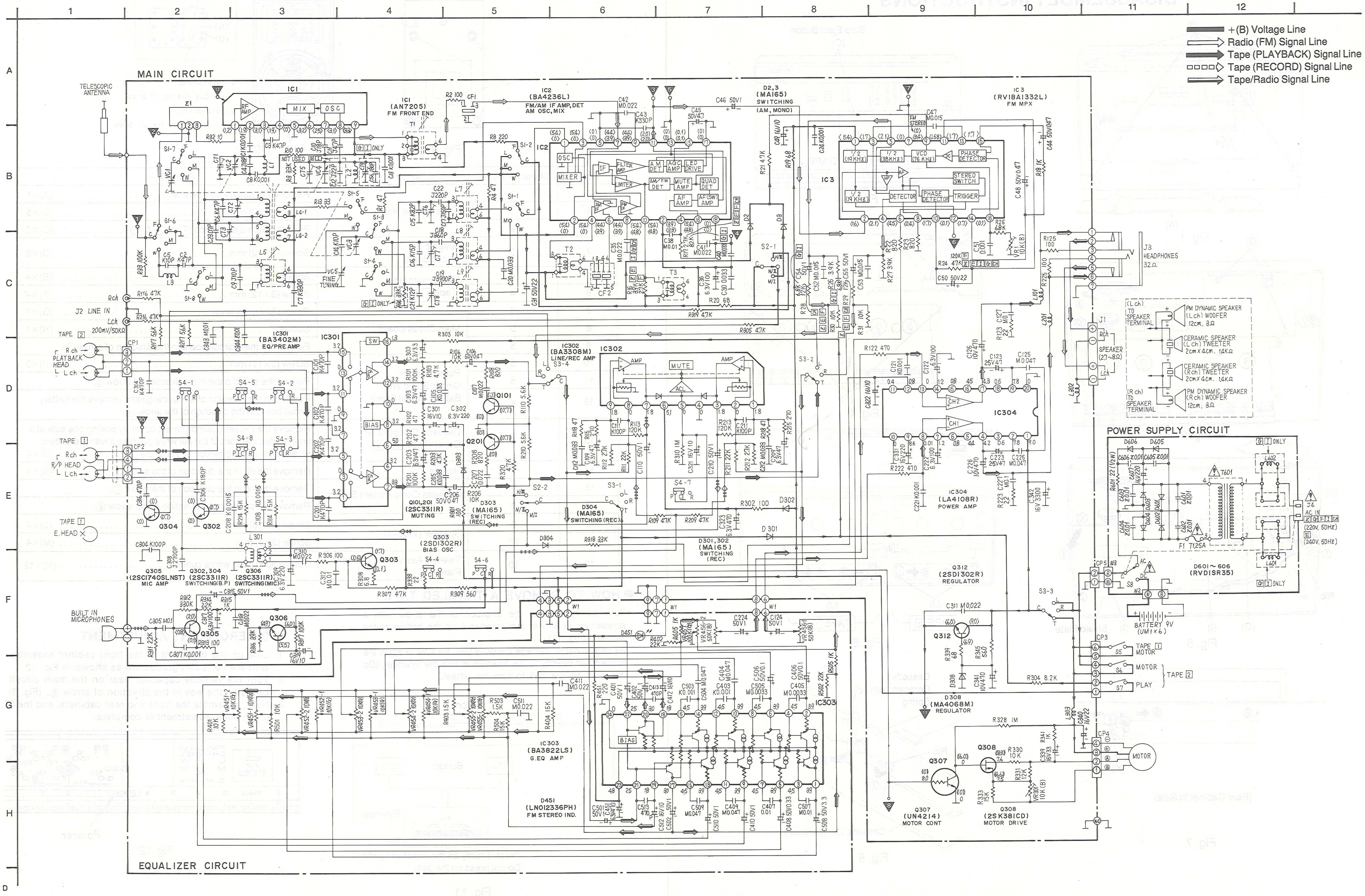

FM STEREO
FM·UKW
CHANNEL
L W
M W
m
SW·KW
88 92 96
2 5 10 15 20 25 30
150 170 2
DLF FRI EUR 1
520 600 8
550 500 450 400
6.0 7.0 8.0
49m 41m
SCALE
0 1 2 3 4
Pointer

Fig.12

SCHEMATIC DIAGRAM


+(B) Voltage Line
Radio (FM) Signal Line
Tape (PLAYBACK) Signal Line
Tape (RECORD) Signal Line
Tape/Radio Signal Line
MAIN CIRCUIT
EQUALIZER CIRCUIT
POWER SUPPLY CIRCUIT
TELESCOPIC ANTENNA
IC1 (AN7205) FM FRONT END
IC2 (BA4236L) FM/AM IF AMP, DET AM OSC, MIX
D2,3 (MA165) SWITCHING (AM, MONO)
IC3 (RVIBA1332L) FM MPX
J3 HEADPHONES 32Ω
J2 LINE IN Rch Lch 200mV/50KΩ
TAPE 2 R ch PLAYBACK HEAD L ch
TAPE 1 R ch R/P HEAD L ch
TAPE 1 E. HEAD
IC301 (BA3402M) EQ/PRE AMP
IC302 (BA3308M) LINE/REC AMP
Q101,201 (2SC3311R) MUTING
D303 (MA165) SWITCHING (REC)
D304 (MA165) SWITCHING (REC)
Q303 (2SD1302R) BIAS OSC
D301,302 (MA165) SWITCHING (REC)
Q305 (2SC1740SLNST) MIC AMP
Q302,304 (2SC3311R) SWITCHING (B.P)
Q306 (2SC3311R) SWITCHING (MIC)
BUILT IN MICROPHONES
IC304 (LA4108R) POWER AMP
Q312 (2SD1302R) REGULATOR
D308 (MA4068M) REGULATOR
IC303 (BA3822LS) G.EQ AMP
D451 (LN012336PH) FM STEREO IND.
Q307 (UN4214) MOTOR CONT
Q308 (2SK381CD) MOTOR DRIVE
J1 SPEAKER (2.7~8Ω)
(L ch) TO SPEAKER TERMINAL
PM DYNAMIC SPEAKER (L ch) WOOFER 12cm, 8Ω
CERAMIC SPEAKER (L ch) TWEETER 2cm×4cm, 14KΩ
CERAMIC SPEAKER (R ch) TWEETER 2cm×4cm, 14KΩ
(R ch) TO SPEAKER TERMINAL
PM DYNAMIC SPEAKER (R ch) WOOFER 12cm, 8Ω
D601~606 (RVD1SR35)
J4 AC IN (220V, 50Hz) (240V, 50Hz)
F1 T125A
T601
BATTERY 9V (UM1×6)
TAPE 1 MOTOR
MOTOR
PLAY
TAPE 2
MOTOR
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

DISASSEMBLY INSTRUCTIONS

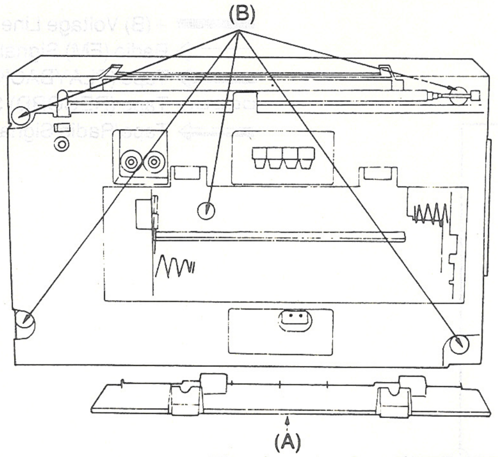


Fig. 1

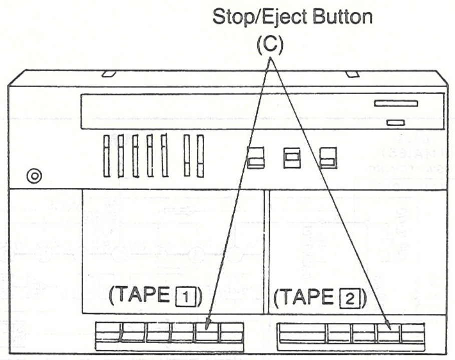

Stop/Eject Button
(C)
(TAPE 1)
(TAPE 2)

Fig. 2

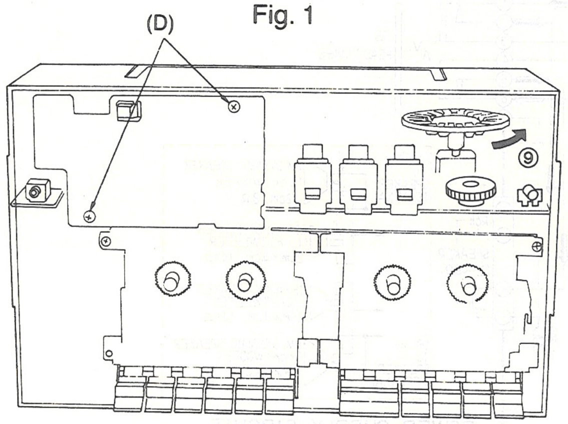


Fig. 3

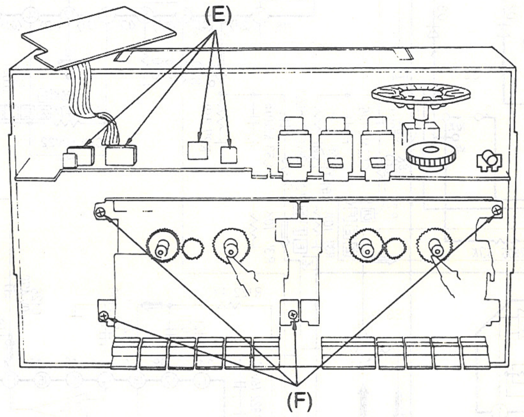


Fig. 4

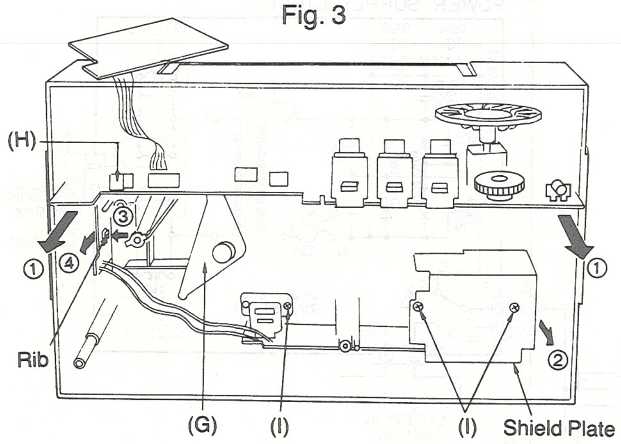

(H)
①
④
③
①
②
Rib
(G)
(I)
(I)
Shield Plate

Fig. 5

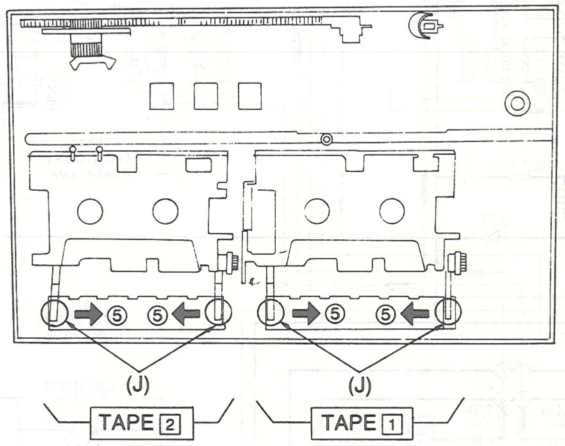

⑤
⑤
⑤
⑤
(J)
(J)
TAPE 2
TAPE 1

Fig. 6

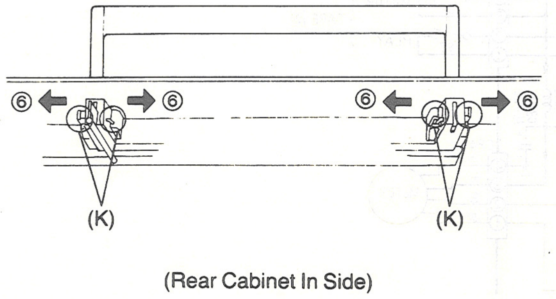

⑥
⑥
⑥
⑥
(K)
(K)
(Rear Cabinet In Side)

Fig. 7

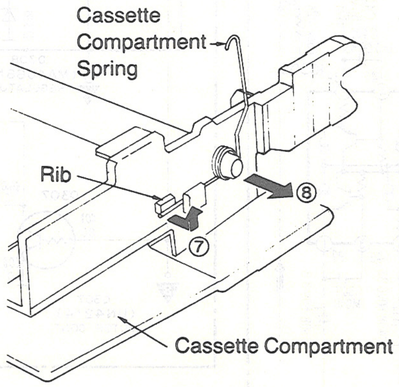

Cassette Compartment Spring
Rib
⑧
⑦
Cassette Compartment

Fig. 8

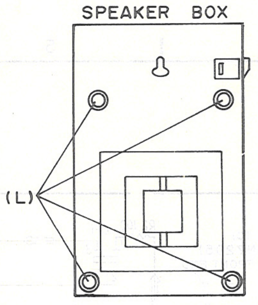
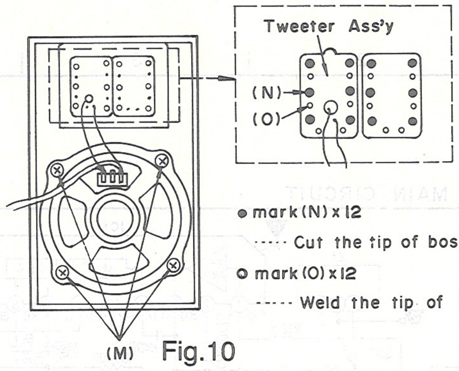

SPEAKER BOX
(L)

Fig. 9


Tweeter Ass'y
(N)
(O)
(M)

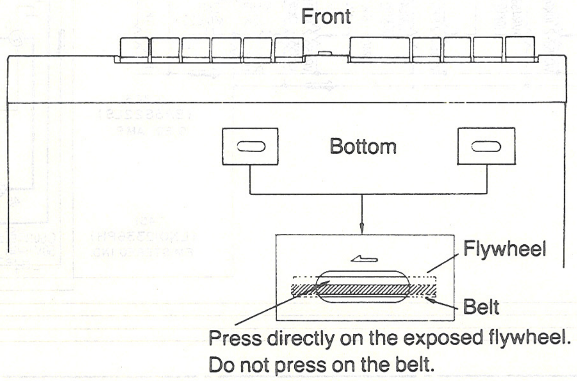
● mark (N) x 12
····· Cut the tip of boss.
○ mark (O) x 12
····· Weld the tip of boss.

Fig. 10

Steps	Shown in Fig.—.	To remove —.	Remove —.
1	1	Front Cabinet Ass'y	Remove the battery compartment .... (A)×1
2	1		Screw (3×40) mm .... (B)×5
3	2		Push the Stop/Eject button (Tape 1 & 2) .... (C)×2
4	3	Graphic EQ Circuit Board	Screw (3×12) mm .... (D)×2
5	4	Mechanism Unit (Tape 1 & 2)	Socket .... (E)×4
6	4		Screw (3×12) mm .... (F)×4
7	5	Main Circuit Board	Record/plabyack lever .... (G)×1
8	5		Socket .... (H)×1
9	5		Pull out the main circuit board in the direction of arrow ①.
10	5	Power Supply Circuit Board and Battery Circuit Board	Screw (3×12) mm .... (I)×3
11	5		Pull out the shield plate in the direction of arrow ②.
12	5		Push rib in the direction of the arrow ③ and remove the battery circuit board in the direction of the arrow ④.
13	6	Cassette Compartment Cover (Tape 1 & 2)	Remove the cassette compartment cover by pulling one side at a time toward the front of the set while pushing it with a standard screwdriver in the direction of the arrow ⑤ .... (J)×4
14	7	Handle	Remove the rib in the direction of the arrow ⑥ .... (K)×4
15	8	Cassette Compartment Spring	Remove the rib in the direction of the arrow ⑦.
16	8		Remove the spring in the direction of the arrow ⑧.
17	9	Speaker (Woofer)	Screw (3×18) mm .... (L)×4
18	10		Screw (3×8) mm .... (M)×4
19	10	Tweeter Ass'y and Ornament Plate	Cut the tip of boss with a cutter .... (N)×12

■ HOW TO REMOVE A TANGLED TAPE

- Turn the flywheel in the direction of the arrow with a screwdriver or similar tool inserted from the bottom of the cabinet. (Fig. 11)
Be careful not to damage the drive belt. Be sure to apply the screwdriver directly to the flywheel to turn the flywheel. (Do not push on the belt to turn the wheel.)


Front
Bottom
Flywheel
Belt

Press directly on the exposed flywheel.
Do not press on the belt.

Fig. 11

■ 0 (ZERO) POINT ADJUSTMENT

1. Line up the dial point in the front cabinet assembly with the "0" point graduation as shown in Fig. 12.
2. Turn the variable capacitor gear on the main circuit board all the way in the direction of arrow ⑨. (Fig. 3)
3. Next, assemble the front and rear cabinets, and the 0 (zero) point adjustment is complete.

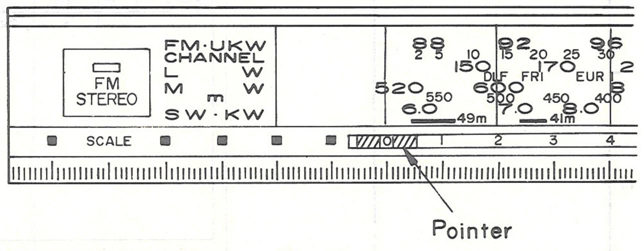
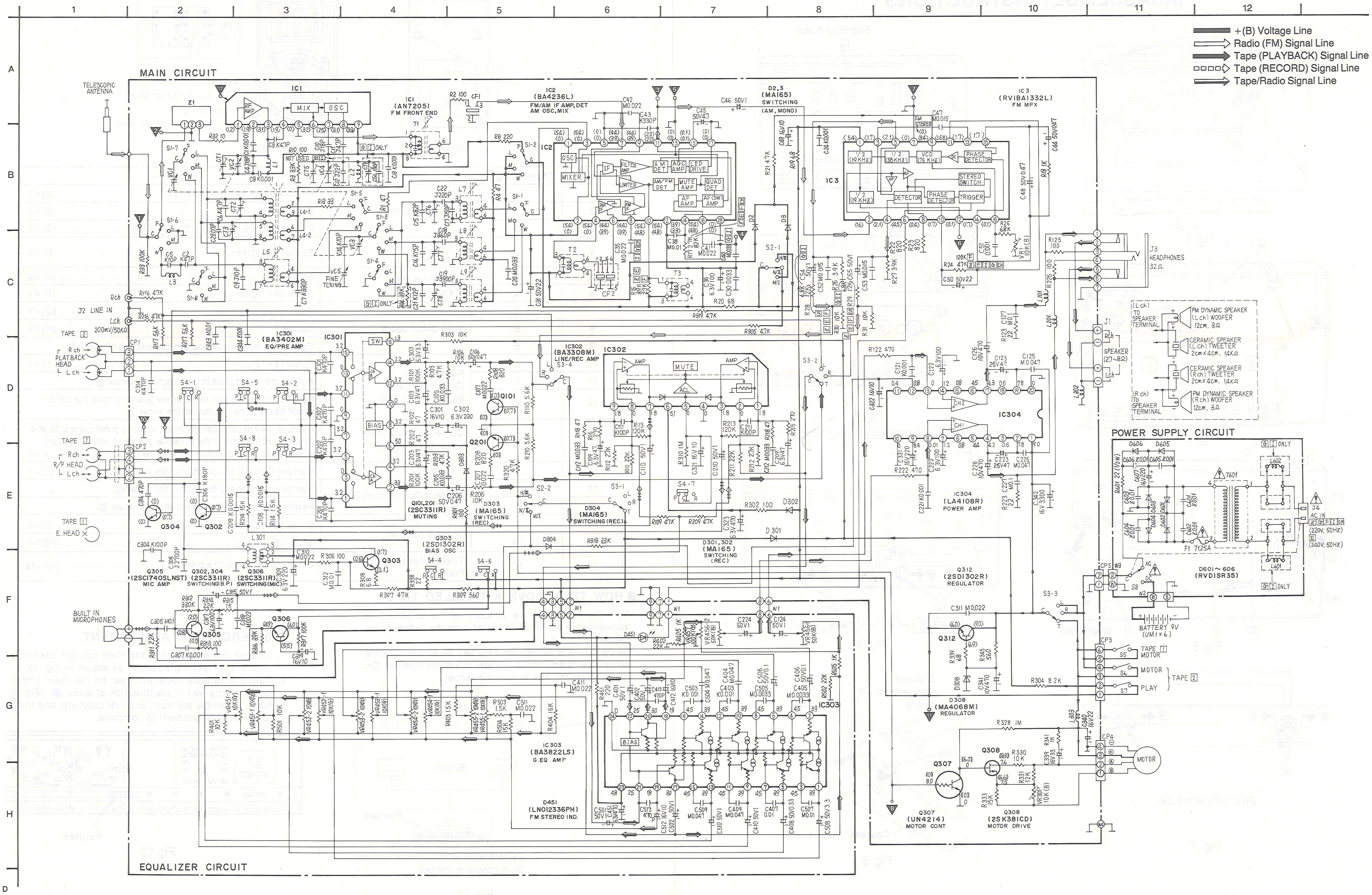

FM STEREO
FM·UKW
CHANNEL
L W
M m W
SW·KW
88
92
96
2 5 10 15 20 25 30
150 170
DLF FRI EUR
520 600
550 500 450 400
6.0 7.0 8.0
49m 41m
SCALE
0 1 2 3 4
Pointer

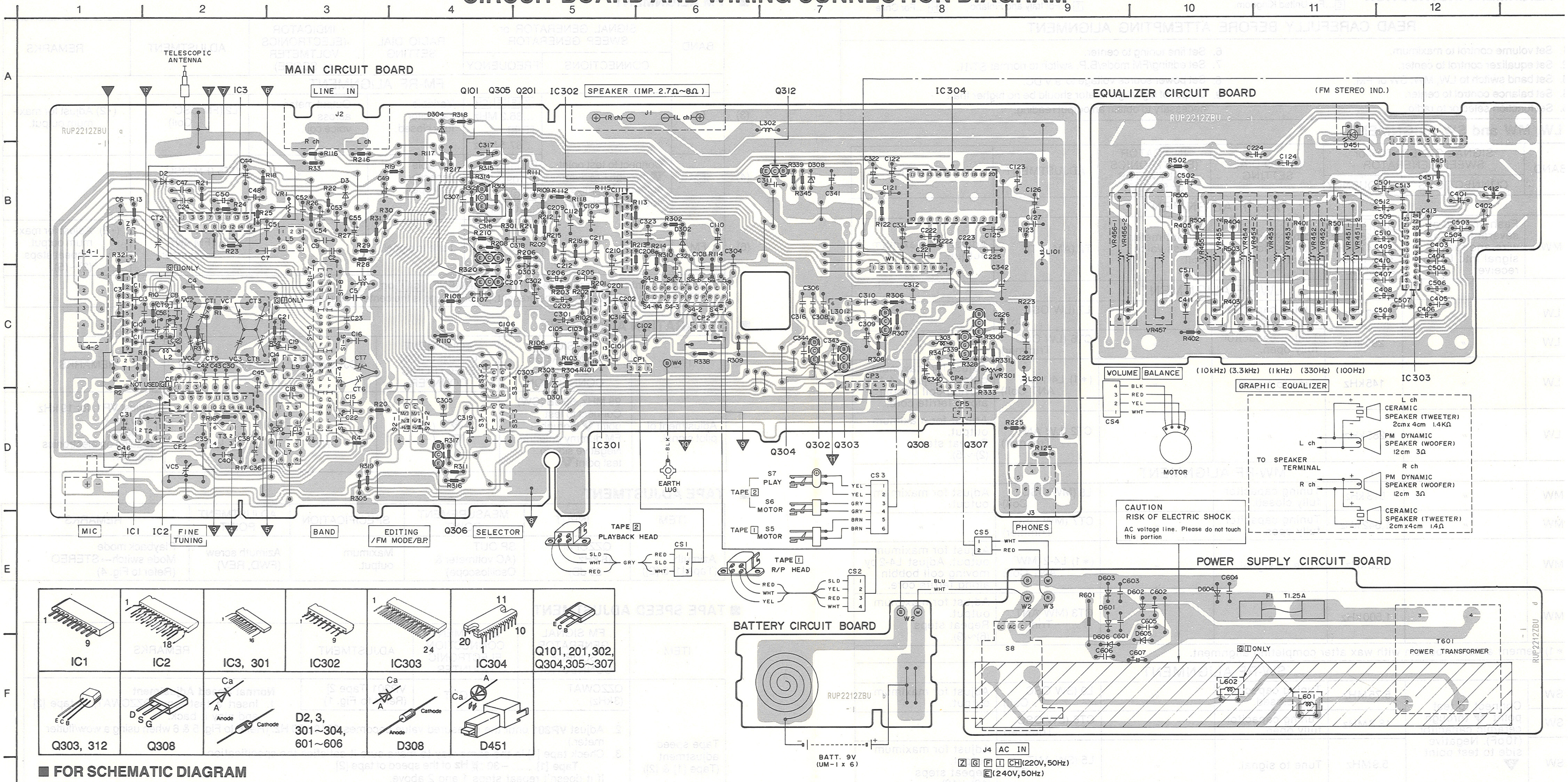
Fig.12

SCHEMATIC DIAGRAM


1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
+(B) Voltage Line
Radio (FM) Signal Line
Tape (PLAYBACK) Signal Line
Tape (RECORD) Signal Line
Tape/Radio Signal Line
MAIN CIRCUIT
TELESCOPIC ANTENNA
IC1 (AN7205) FM FRONT END
RF AMP
MIX
OSC
IC2 (BA4236L) FM/AM IF AMP, DET AM OSC, MIX
OSC
MIXER
IF
FILTER AMP
LIMITER
A.M. DET
AGC AMP
LED DRIVE
AM/FM DET
MUTE AMP
QUAD DET
AF AMP
AF (SW) AMP
D2,3 (MA165) SWITCHING (AM, MONO)
IC3 (RVIBA1332L) FM MPX
1/2 (19 KHz)
1/2 (38 KHz)
VCO (76 KHz)
PHASE DETECTOR
STEREO SWITCH
DETECTOR
TRIGGER
J3 HEADPHONES 32Ω
J2 LINE IN
Rch
Lch
200mV/50KΩ
TAPE 2
PLAYBACK HEAD
IC301 (BA3402M) EQ/PRE AMP
SW
BIAS
IC302 (BA3308M) LINE/REC AMP
AMP
MUTE
ACL
Q101,201 (2SC331IR) MUTING
D303 (MA165) SWITCHING (REC)
D304 (MA165) SWITCHING (REC)
D301,302 (MA165) SWITCHING (REC)
Q303 (2SD1302R) BIAS OSC
TAPE 1
R/P HEAD
E. HEAD
Q304
Q302
Q305 (2SC1740SLNST) MIC AMP
Q302,304 (2SC331IR) SWITCHING (B.P)
Q306 (2SC331IR) SWITCHING (MIC)
BUILT IN MICROPHONES
IC304 (LA4108R) POWER AMP
CH1
CH2
J1 SPEAKER (2.7~8Ω)
(Lch) TO SPEAKER TERMINAL
PM DYNAMIC SPEAKER (Lch) WOOFER 12cm, 3Ω
CERAMIC SPEAKER (Lch) TWEETER 2cm × 4cm, 14KΩ
CERAMIC SPEAKER (Rch) TWEETER 2cm × 4cm, 14KΩ
(Rch) TO SPEAKER TERMINAL
PM DYNAMIC SPEAKER (Rch) WOOFER 12cm, 3Ω
POWER SUPPLY CIRCUIT
T601
F1 T1.25A
D601~606 (RVDISR35)
J4 AC IN (220V, 50Hz) (240V, 50Hz)
BATTERY 9V (UM1 × 6)
Q312 (2SD1302R) REGULATOR
D308 (MA4068M) REGULATOR
TAPE 1 MOTOR
MOTOR
TAPE 2
PLAY
MOTOR
Q307 (UN4214) MOTOR CONT
Q308 (2SK381CD) MOTOR DRIVE
IC303 (BA3822LS) G.EQ AMP
D451 (LN012336PH) FM STEREO IND.
EQUALIZER CIRCUIT

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H
TELESCOPIC ANTENNA
MAIN CIRCUIT BOARD
LINE IN
SPEAKER (IMP. 2.7Ω~8Ω)
IC3
Q101 Q305 Q201 IC302
Q312
IC304
EQUALIZER CIRCUIT BOARD
(FM STEREO IND.)
RUP2212ZBU
VOLUME
BALANCE
(10kHz) (3.3kHz) (1kHz) (330Hz) (100Hz)
GRAPHIC EQUALIZER
IC303
MOTOR
TO SPEAKER TERMINAL
L ch
R ch
CERAMIC SPEAKER (TWEETER) 2cm×4cm 1.4kΩ
PM DYNAMIC SPEAKER (WOOFER) 12cm 3Ω
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion
PHONES
J3
IC301
Q304 Q302 Q303
Q308 Q307
EARTH LUG
MIC
IC1 IC2
FINE TUNING
BAND
EDITING /FM MODE/B.P.
Q306
SELECTOR
TAPE 2 PLAYBACK HEAD
TAPE 1 R/P HEAD
S7 PLAY
S6 MOTOR
S5 MOTOR
POWER SUPPLY CIRCUIT BOARD
F1 T1.25A
T601 POWER TRANSFORMER
BATTERY CIRCUIT BOARD
BATT. 9V (UM-1 × 6)
J4 AC IN
Z G F I CH (220V, 50Hz)
E (240V, 50Hz)
IC1
IC2
IC3, 301
IC302
IC303
IC304
Q101, 201, 302, Q304, 305~307
Q303, 312
Q308
D2, 3, 301~304, 601~606
D308
D451
Ca
A
Anode
Cathode
E C B
D S G

■ FOR SCHEMATIC DIAGRAM

Notes:

1. S1-1~S1-8: Band select switch in "FM" position.
   (F…FM, L…LW, M…MW, W…SW)
2. S2-1, S2-2: Editing/FM mode/B.P select switch in "NORMAL/ST/II" position.
   (H/III…HIGH/ST/III
   N/II…NORMAL/ST/II
   M/I…OFF/MONO/I BUILT IN MIC)
3. S3-1~S3-4: Function select switch in "TAPE/OFF" position.
   (T…TAPE/OFF, R…RADIO, L…LINE)
4. S4-1~S4-8: Record/Playback switch in "PLAYBACK" position.
   (P…PLAYBACK, R…RECORD)
5. S5: Motor switch in "OFF" position [TAPE 1].
6. S6: Motor switch in "OFF" posiiton [TAPE 2].
7. S7: Play switch in "OFF" position [TAPE 2].
8. S8: AC/DC IN select switch in "AC" position.
9. VR1: FM VCO adjustment VR.
10. VR301: Tape speed adjustment VR.
11. VR451~VR455: G. EQ. control VR.
12. VR456-1, VR456-2: Volume control VR.
13. VR457: Balance control VR.
14. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
    No mark…Playback position, [ ]…Record position, < >…FM position, ( )…AM position, (( ))…High speed rec
15. Battery current:

No signal	65.2 mA
Maximum output (radio)	550 mA
Maximum output (tape: Playback)	589 mA
Maximum output (tape: Record)	700 mA

16. Described in schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type number is used for supply parts number and production parts number which they are identical.
    e.g. Q1
    2SC2412NRTB, LNSTB …… Production parts number
    (2SC2412) …………………… Supply parts number
17. The supply parts number is described alone in the replacement parts list.
18. The mark (▼) shows test point e.g. ▼ =test point 1.
19. Important safety notice(⚠)
    The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.
    When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

●This schematic diagram may be modified at any time with the development of new technology.

F…For France
I…For Italy and Finland
G…For F.R. Germany
Z…For all European areas except E F I G
E…For United Kingdom.
CH…For Chile

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

[Z]...For all European areas except [E][F][I][G].
[E]...For United Kingdom.
[F]...For France
[I]...For Italy and Finland
[G]...For F.R. Germany
[CH]...For Chile

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set equalizer control to center.
3. Set band switch to LW, MW, SW or FM.
4. Set balance control to center.
5. Set function selector to radio.
6. Set fine tuning to center.
7. Set editing/FM mode/B.P. switch to normal ST/II.
8. Set power source voltage to 9 V DC.
9. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW and SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
				AM-IF ALIGNMENT			
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	[Z][F][I][G][CH] ...455 kHz [E]...470 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
				LW-RF ALIGNMENT			
(2)	LW	〃	137 kHz	Tuning capacitor fully closed.	〃	L7 (LW OSC Coil)	〃
(3)	LW	〃	295 kHz	Tuning capacitor fully open.	〃	CT6 (LW OSC Trimmer)	〃
(4)	LW	〃	145 kHz	Tune to signal.	〃	(∗1) L4-1 (LW ANT Coil)	Adjust for maximum output. Adjust L4-1 by moving coil bobbin along ferrite core.
(5)	LW	〃	285 kHz	〃	〃	CT2 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
				MW-RF ALIGNMENT			
(6)	MW	〃	513 kHz	Tuning capacitor fully closed.	〃	L8 (MW OSC Coil)	Adjust for maximum output.
(7)	MW	〃	1,642 kHz	Tuning capacitor fully open.	〃	CT7 (MW OSC Trimmer)	〃
(8)	MW	〃	550 kHz	Tune to signal.	〃	(∗1) L4-2 (MW ANT Coil)	Adjust for maximum output. Adjust L4-2 by moving coil bobbin along ferrite core.
(9)	MW	〃	1,500 kHz	〃	〃	CT3 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).
	(∗1) Cement antenna bobbin with wax after completing alignment.						
				SW-RF ALIGNMENT			
(10)	SW	Connect to test point ▽1 through ceramic capacitor (10 pF). Negative side to test point ▽2.	5.75 MHz	Tuning capacitor fully closed.	〃	L9 (SW OSC Coil)	Adjust for maximum output.
(11)	SW		18.8 MHz	Tuning capacitor fully open.	〃	CT8 (SW OSC Trimmer)	〃
(12)	SW		5.9 MHz	Tune to signal.	〃	L5 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
				FM-IF ALIGNMENT			
(1)	FM	High side thru. 0.001μF to test point ▽12. Negative side to test point ▽2.	10.7 MHz (SWP.)	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▽3. Negative side to test point ▽5.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2.)
(2)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3.)

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
				FM-RF ALIGNMENT			
(3)	FM	Connect to test point ▽1 through FM dummy antenna. Negative side to test point ▽2.	[Z][E][F][CH] ...86.2 MHz [I][G] ...87.5 MHz	Variable capacitor fully closed.	Output meter across voice coil.	L2 (FM OSC Coil)	(∗2) Adjust for maximum output.
(4)	FM		[Z][E][F][CH] ...109.3 MHz [I][G] ...108 MHz	Variable capacitor fully open.	〃	CT5 (FM OSC Trimmer)	〃
(6)	FM		106 MHz	Tune to signal.	〃	CT1 (FM ANT Trimmer)	(∗2) Adjust for maximum output. Repeat steps (3)~(5).

CT9 adjustment to center before FM-RF ALIGNMENT. ([G][I] only)
(∗2) Three output responses will be present; proper tuning is the center frequency.

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB (CW) Connect to test point ▽1 thorugh FM dummy antenna. Negative side to test point ▽2.	▽6...(+) ▽7...(−)	VR1	19 kHz	Adjust VR1, for 19 kHz (+50 Hz / −100 Hz) reading on electronics counter.

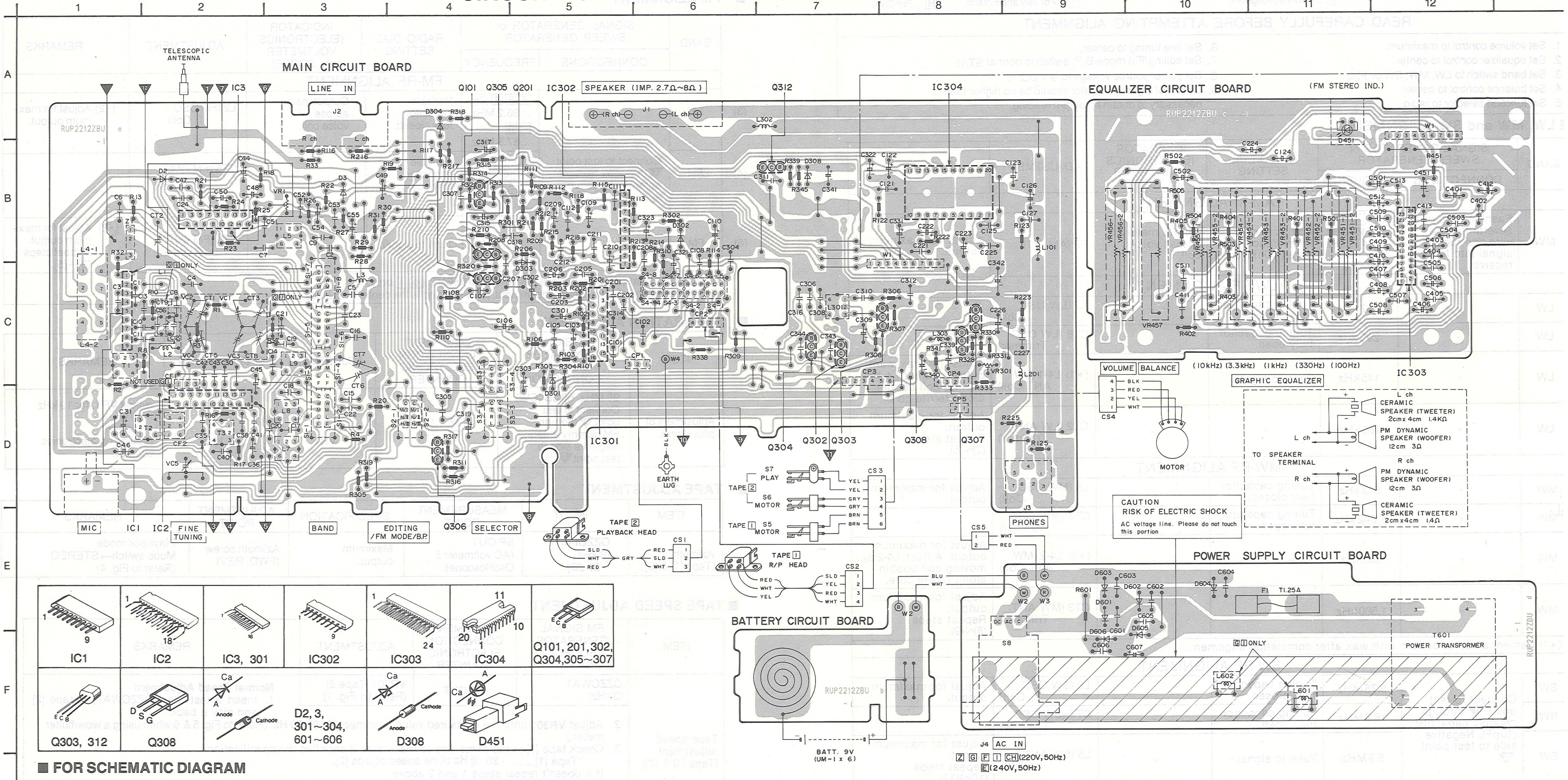
■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth (Tape [1] & [2])	QZZCFM (8 kHz, −20 dB)	SP OUT (AC voltmeter & Oscilloscope)	Maximum output.	Azimuth screw (FWD, REV)	Playback mode Mode switch→STEREO (Refer to Fig. 4)

■ TAPE SPEED ADJUSTMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
Tape speed adjustment (Tape [1] & [2])	QZZCWAT (3kHz)	SP OUT	VR301 [Tape 2] (Refer to Fig. 1)	**Normal Speed Adjustment** 1. Insert a test tape (QZZCWAT) in tape [2] and play it back. 2. Adjust **VR301** until the measured value becomes **3010±30 Hz.** (Refer to Fig. 5 & 6 when using a wow/flutter meter.) 3. Check tape [1] in the same way to make sure it satisfies the specification. **Tape [1]**...... **−30** $^{+30}_{-70}$ **Hz** of the speed of tape [2]. If it doesn't repeat steps 1 and 2 above. **Note:** This set uses one drive motor, so be sure to perform the adjustment in tape [2]. **High Speed Measurement** 4. Short the test point ▽8 and ▽11 to set the high speed mode. (Refer to Circuit Board and Wiring Connection Diagram) 5. Check to be sure that the measured speed is at least **1.8 times** faster than normal speed.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM


1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
TELESCOPIC ANTENNA
MAIN CIRCUIT BOARD
LINE IN
IC3
Q101
Q305
Q201
IC302
SPEAKER (IMP. 2.7Ω~8Ω)
Q312
IC304
EQUALIZER CIRCUIT BOARD
(FM STEREO IND.)
RUP2212ZBU
J1
J2
J3
R ch
L ch
IC301
Q304
Q302
Q303
Q308
Q307
Q306
VOLUME
BALANCE
(10kHz) (3.3kHz) (1kHz) (330Hz) (100Hz)
GRAPHIC EQUALIZER
IC303
CS4
BLK
RED
YEL
WHT
MOTOR
TO SPEAKER TERMINAL
L ch
R ch
CERAMIC SPEAKER (TWEETER) 2cm×4cm 1.4KΩ
PM DYNAMIC SPEAKER (WOOFER) 12cm 3Ω
PM DYNAMIC SPEAKER (WOOFER) 12cm 3Ω
CERAMIC SPEAKER (TWEETER) 2cm×4cm 1.4Ω
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion
PHONES
CS5
WHT
RED
EARTH LUG
BLK
S7 PLAY
TAPE 2
S6 MOTOR
TAPE 1
S5 MOTOR
CS3
YEL
GRY
BRN
TAPE 2 PLAYBACK HEAD
CS1
SLD
WHT
RED
GRY
TAPE 1 R/P HEAD
CS2
BLU
MIC
IC1
IC2
FINE TUNING
BAND
EDITING /FM MODE/B.P
SELECTOR
POWER SUPPLY CIRCUIT BOARD
F1 T1.25A
T601
POWER TRANSFORMER
E ONLY
S8
DC AC
L601
L602
D601
D602
D603
D604
D605
D606
R601
C601
C602
C603
C604
C605
C606
C607
BATTERY CIRCUIT BOARD
W2
W3
BATT. 9V (UM-1 x 6)
J4
AC IN
Z G F I CH(220V,50Hz)
E(240V,50Hz)
IC1
IC2
IC3, 301
IC302
IC303
IC304
Q101, 201, 302, Q304,305~307
Q303, 312
Q308
D2, 3, 301~304, 601~606
D308
D451
E C B
D S G
Ca
A
Anode
Cathode
1
9
18
16
24
11
20
10

■ FOR SCHEMATIC DIAGRAM

Notes:

1. S1-1~S1-8: Band select switch in "FM" position.
   (F…FM, L…LW, M…MW, W…SW)
2. S2-1, S2-2: Editing/FM mode/B.P select switch in "NORMAL/ST/II" position.
   (H/III…HIGH/ST/III
   N/II…NORMAL/ST/II
   M/I…OFF/MONO/I BUILT IN MIC)
3. S3-1~S3-4: Function select switch in "TAPE/OFF" position.
   (T…TAPE/OFF, R…RADIO, L…LINE)
4. S4-1~S4-8: Record/Playback switch in "PLAYBACK" position.
   (P…PLAYBACK, R…RECORD)
5. S5: Motor switch in "OFF" position [TAPE 1].
6. S6: Motor switch in "OFF" posiiton [TAPE 2].
7. S7: Play switch in "OFF" position [TAPE 2].
8. S8: AC/DC IN select switch in "AC" position.
9. VR1: FM VCO adjustment VR.
10. VR301: Tape speed adjustment VR.
11. VR451~VR455: G. EQ. control VR.
12. VR456-1, VR456-2: Volume control VR.
13. VR457: Balance control VR.
14. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
    No mark…Playback position, [ ]…Record position,
    < >…FM position, ( )…AM position, (( ))…High speed rec
15. Battery current:

No signal	65.2 mA
Maximum output (radio)	550 mA
Maximum output (tape: Playback)	589 mA
Maximum output (tape: Record)	700 mA

16. Described in schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type number is used for supply parts number and production parts number which they are identical.
    e.g. Q1
    2SC2412NRTB, LNSTB …… Production parts number
    (2SC2412) ………………… Supply parts number
17. The supply parts number is described alone in the replacement parts list.
18. The mark (▼) shows test point e.g. ▼1 =test point 1.
19. Important safety notice(⚠)
    The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.
    When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

●This schematic diagram may be modified at any time with the development of new technology.

F…For France
I…For Italy and Finland
G…For F.R. Germany
Z…For all European areas except E F I G
E…For United Kingdom.
CH…For Chile

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

[Z]...For all European areas except [E][F][I][G].
[E]...For United Kingdom.
[F]...For France
[I]...For Italy and Finland
[G]...For F.R. Germany
[CH]...For Chile

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set equalizer control to center.
3. Set band switch to LW, MW, SW or FM.
4. Set balance control to center.
5. Set function selector to radio.
6. Set fine tuning to center.
7. Set editing/FM mode/B.P. switch to normal ST/II.
8. Set power source voltage to 9 V DC.
9. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW and SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
				AM-IF ALIGNMENT			
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	[Z][F][I][G][CH] ...455 kHz [E]...470 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	Output meter across voice coil.	T2 (AM IFT)	Adjust for maximum output.
				LW-RF ALIGNMENT			
(2)	LW	〃	137 kHz	Tuning capacitor fully closed.	〃	L7 (LW OSC Coil)	〃
(3)	LW	〃	295 kHz	Tuning capacitor fully open.	〃	CT6 (LW OSC Trimmer)	〃
(4)	LW	〃	145 kHz	Tune to signal.	〃	(＊1) L4-1 (LW ANT Coil)	Adjust for maximum output. Adjust L4-1 by moving coil bobbin along ferrite core.
(5)	LW	〃	285 kHz	〃	〃	CT2 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
				MW-RF ALIGNMENT			
(6)	MW	〃	513 kHz	Tuning capacitor fully closed.	〃	L8 (MW OSC Coil)	Adjust for maximum output.
(7)	MW	〃	1,642 kHz	Tuning capacitor fully open.	〃	CT7 (MW OSC Trimmer)	〃
(8)	MW	〃	550 kHz	Tune to signal.	〃	(＊1) L4-2 (MW ANT Coil)	Adjust for maximum output. Adjust L4-2 by moving coil bobbin along ferrite core.
(9)	MW	〃	1,500 kHz	〃	〃	CT3 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).
	(＊1) Cement antenna bobbin with wax after completing alignment.						
				SW-RF ALIGNMENT			
(10)	SW	Connect to test point ▼1 through ceramic capacitor (10 pF). Negative side to test point ▼2.	5.75 MHz	Tuning capacitor fully closed.	〃	L9 (SW OSC Coil)	Adjust for maximum output.
(11)	SW		18.8 MHz	Tuning capacitor fully open.	〃	CT8 (SW OSC Trimmer)	〃
(12)	SW		5.9 MHz	Tune to signal.	〃	L5 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10)~(12).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
				FM-IF ALIGNMENT			
(1)	FM	High side thru. 0.001 μF to test point ▼12. Negative side to test point ▼2.	10.7 MHz (SWP.)	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▼3. Negative side to test point ▼5.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2.)
(2)	FM	〃	〃	〃	〃	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3.)

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
				FM-RF ALIGNMENT			
(3)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	[Z][E][F][CH] ...86.2 MHz [I][G] ...87.5 MHz	Variable capacitor fully closed.	Output meter across voice coil.	L2 (FM OSC Coil)	(＊2) Adjust for maximum output.
(4)	FM		[Z][E][F][CH] ...109.3 MHz [I][G] ...108 MHz	Variable capacitor fully open.	〃	CT5 (FM OSC Trimmer)	〃
(6)	FM		106 MHz	Tune to signal.	〃	CT1 (FM ANT Trimmer)	(＊2) Adjust for maximum output. Repeat steps (3)~(5).

CT9 adjustment to center before FM-RF ALIGNMENT. ([G][I] only)
(＊2) Three output responses will be present; proper tuning is the center frequency.

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB (CW) Connect to test point ▼1 thorugh FM dummy antenna. Negative side to test point ▼2.	▼6...(+) ▼7...(−)	VR1	19 kHz	Adjust VR1, for 19 kHz $\left(\begin{matrix}+50\text{ Hz}\\-100\text{ Hz}\end{matrix}\right)$ reading on electronics counter.

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth (Tape [1] & [2])	QZZCFM (8 kHz, −20 dB)	SP OUT (AC voltmeter & Oscilloscope)	Maximum output.	Azimuth screw (FWD, REV)	Playback mode Mode switch→STEREO (Refer to Fig. 4)

■ TAPE SPEED ADJUSTMENT

<table>
<tr><th>ITEM</th><th>FM SIGNAL GENERATOR SOURCE CONNECTION</th><th>EQUIPMENT CONNECTION ELECTRONIC COUNTER</th><th>ADJUSTMENT</th><th>REMARKS</th></tr>
<tr><td rowspan="2">Tape speed adjustment (Tape [1] & [2])</td><td>QZZCWAT (3kHz)</td><td>SP OUT</td><td>VR301 [Tape 2] (Refer to Fig. 1)</td><td>Normal Speed Adjustment
1. Insert a test tape (QZZCWAT) in tape [2] and play it back.</td></tr>
<tr><td colspan="4">2. Adjust VR301 until the measured value becomes 3010±30 Hz. (Refer to Fig. 5 & 6 when using a wow/flutter meter.)
3. Check tape [1] in the same way to make sure it satisfies the specification.
Tape [1]...... −30 $^{+30}_{-70}$ Hz of the speed of tape [2].
If it doesn't repeat steps 1 and 2 above.
Note: This set uses one drive motor, so be sure to perform the adjustment in tape [2].
High Speed Measurement
4. Short the test point ▼8 and ▼11 to set the high speed mode. (Refer to Circuit Board and Wiring Connection Diagram)
5. Check to be sure that the measured speed is at least 1.8 times faster than normal speed.</td></tr>
</table>

■ ALIGMENT POINT

*Please refer to Circuit Board and Wiring Connection Diagram for test point location.

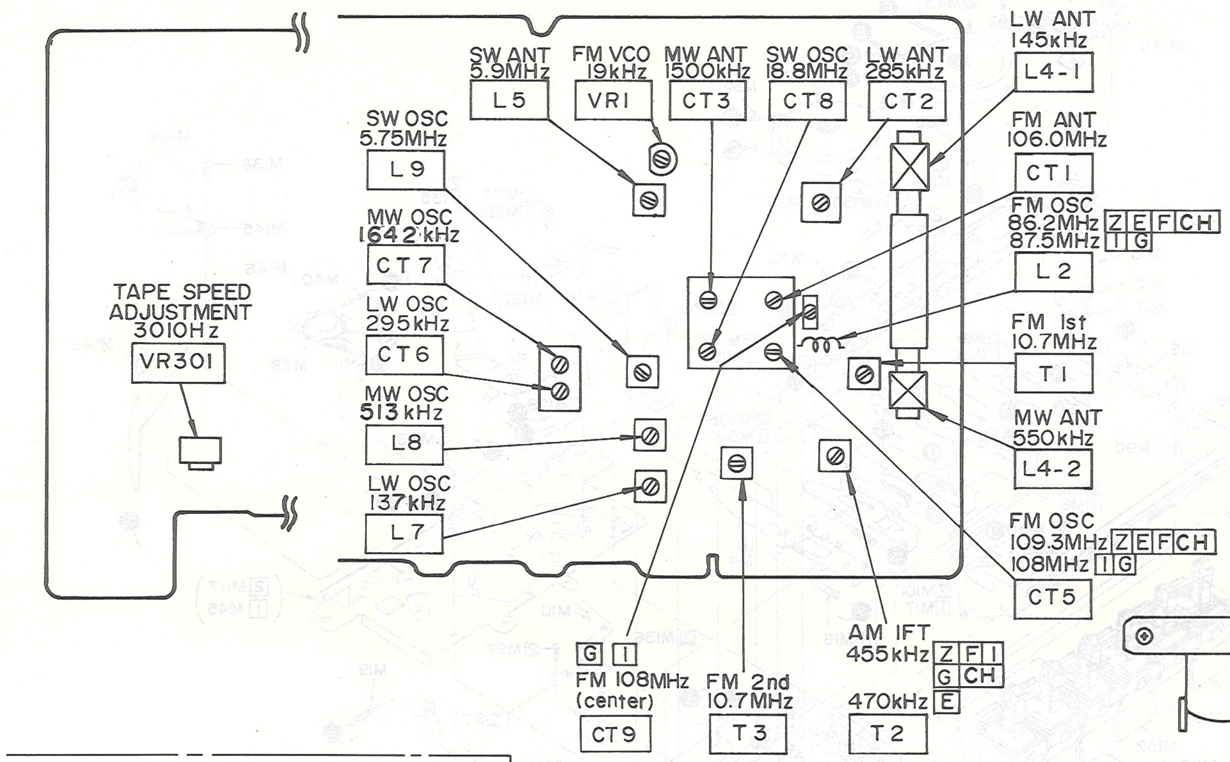

SW ANT
5.9MHz
L5
FM VCO
19kHz
VR1
MW ANT
1500kHz
CT3
SW OSC
18.8MHz
CT8
LW ANT
285kHz
CT2
LW ANT
145kHz
L4-1
FM ANT
106.0MHz
CT1
FM OSC
86.2MHz Z E F CH
87.5MHz I G
L2
FM 1st
10.7MHz
T1
MW ANT
550kHz
L4-2
FM OSC
109.3MHz Z E F CH
108MHz I G
CT5
SW OSC
5.75MHz
L9
MW OSC
1642kHz
CT7
LW OSC
295kHz
CT6
MW OSC
513kHz
L8
LW OSC
137kHz
L7
TAPE SPEED
ADJUSTMENT
3010Hz
VR301
G I
FM 108MHz
(center)
CT9
FM 2nd
10.7MHz
T3
AM IFT
455kHz Z F I
G CH
470kHz E
T2

Fig. 1

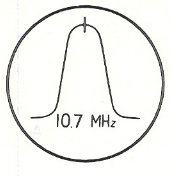


Fig. 2

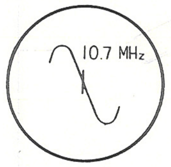
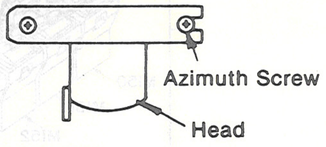


Fig. 3


Azimuth Screw
Head

■ REPLACEMENT PARTS LIST

Note: 1. Important safety notice
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
2. The letter in square brackets after the parts name indicates the color of the parts.
[K]...Black
3. The letter in square brackets in the Ref. No. column indicates the shipping destination.
[Z]...For all European areas except [E.F.I.G].
[E]...For United Kingdom.
[F]...For France.
[I]...For Italy and Finland.
[G]...For F.R. Germany.
[CH]...For Chile.
4. M mark stands for that the parts are supplied from MESA.

●NEEDLE POSITION OF THE DRIFT METER

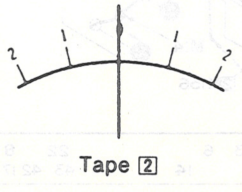

2
1
0
1
2
Tape 2

Fig. 5

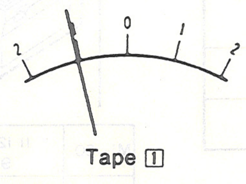
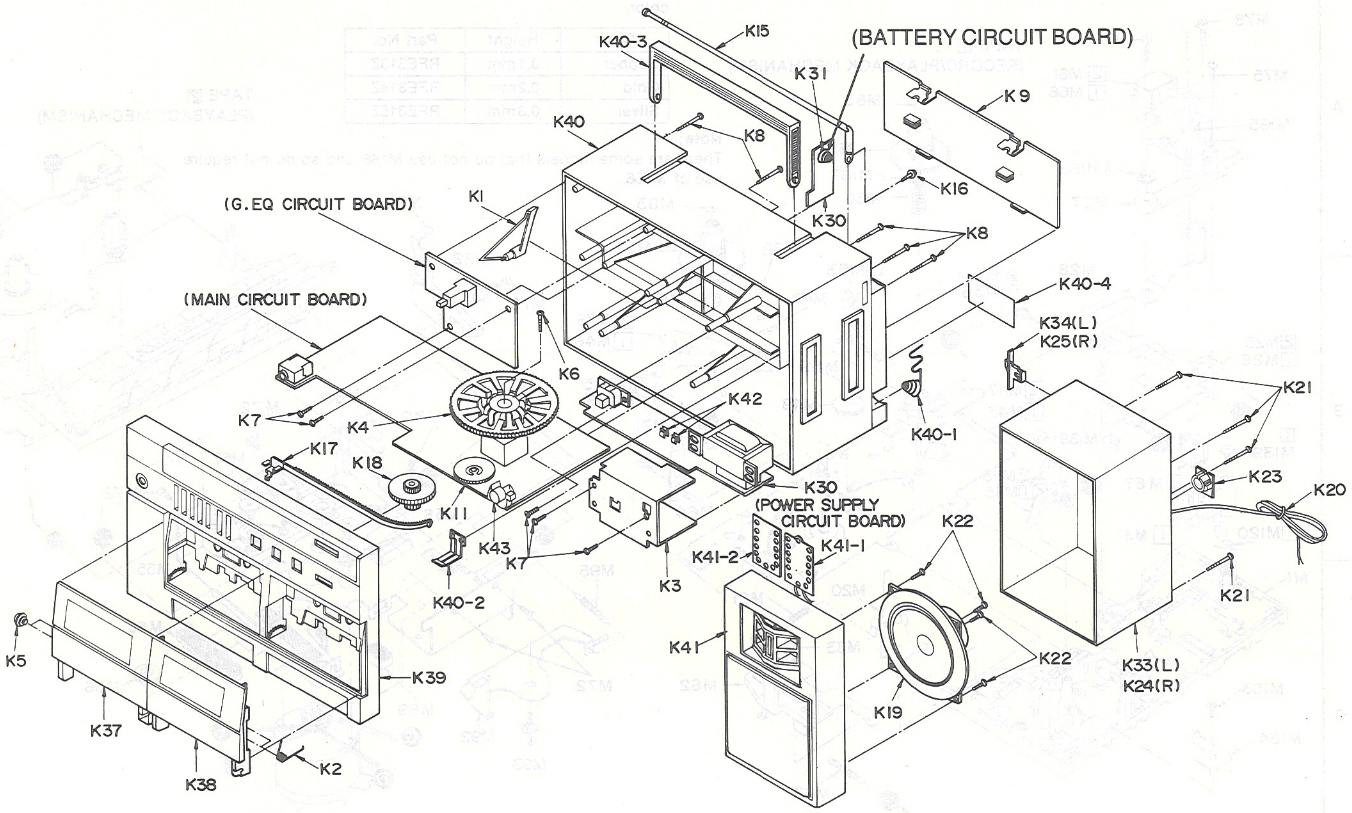

2
1
0
1
2
Tape 1

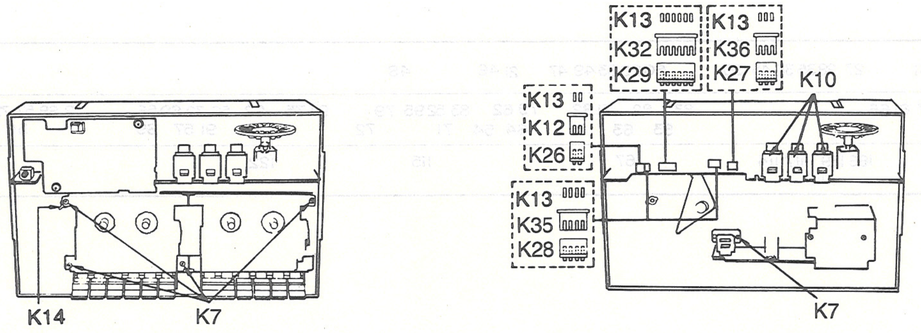
Fig. 6

Ref. No.	Part No.	Part Code	Description
CABINET PARTS			
K1	RUB459Z	015 718 4358 3	LEVER, R/P
K2	RUS689Z	015 728 1550 1	SPRING
K3	RMC1081ZB	015 601 1082 2	SHIELD PLATE
K4	RDG5739Z	015 745 0706 6	DRUM, DIAL
K5	RDG5782Z	015 745 0745 9	GEAR, DUMPER
K6	XSN26+6	005 500 1364 6	SCREW
K7	XTV3+12G	005 501 0844 4	SCREW
K8	XTN3+40G	005 501 1269 9	SCREW
K9	RKK273Z	015 820 3749 3	BATTERY COMPARTMENT
K10	RBD398Z	015 700 4140 5	KNOB, SELECT, (K)
K11	RBT280YA-0	015 700 4497 9	KNOB, TUNING, (K) M
K12	RJS2L3Z	003 400 5564 7	SOCKET(2P)
K13	RJT707Z	003 410 5629 1	TERMINAL
K14	RJT514Z	003 410 5543 6	TERMINAL, LUG
K15	XEARR225EAY	002 390 1258 1	TELESCOPIC ANTENNA
K16	XYN3+F8FY	005 503 0350 1	SCREW
K17	RDP329ZA-0	015 710 0741 6	POINTER, (M)
K18	RBT283ZB-0	015 700 4498 8	KNOB, TUNING, (K)
K19	EAS12P311TB	001 260 3665 5	SPEAKER, WOOFER

Ref. No.	Part No.	Part Code	Description
K20	RJE175Y	003 492 6273 7	CORD
K21	XTV3+25G	005 501 0876 6	SCREW
K22	XTV3+8G	005 501 0913 8	SCREW
K23	RHR171Z	015 652 1045 2	HOLDER, CORD, (K)
K24	RKF758VA	015 802 2850 3	REAR CABINET, RIGHT, (K) M
K25	RGE76X	015 846 1432 7	STOPPER, RIGHT, [K]
K26	RJP2G4Y	003 402 1855 5	PLUG(2P)
K27	RJP3G4Y	003 402 1889 5	PLUG(3P)
K28	RJP4G4Y	003 402 1896 6	PLUG(4P)
K29	RJP6G4Y	003 402 1917 8	PLUG
K30 ⚠	RUP2212ZBU		P.C.B. SUPPLY
K31	RJC511Z	003 413 1086 1	BATTERY TERMINAL(-)
K32	RJS6L3Z	003 400 5671 5	SOCKET
K33	RKF758UA-0	015 802 2851 2	REAR CABINET, LEFT, (K) M
K34	RGE76Y	015 632 4918 8	STOPPER, LEFT, [K]
K35	RJS4L3Z	003 400 5647 5	SOCKET(4P)
K36	RJS3L3Z	003 400 5635 9	SOCKET
K37	RYQ1XCW26LZK	015 640 0462 9	CASSETTE LID ASS'Y, (R) M
K38	RYQ2XCW26LZK	015 640 0461 0	CASSETTE LID ASS'Y, (P) M
K39 (CH)	RYMXCW26LXCH	015 800 6525 7	FRONT CABINET ASS'Y M

CABINET PARTS LOCATION

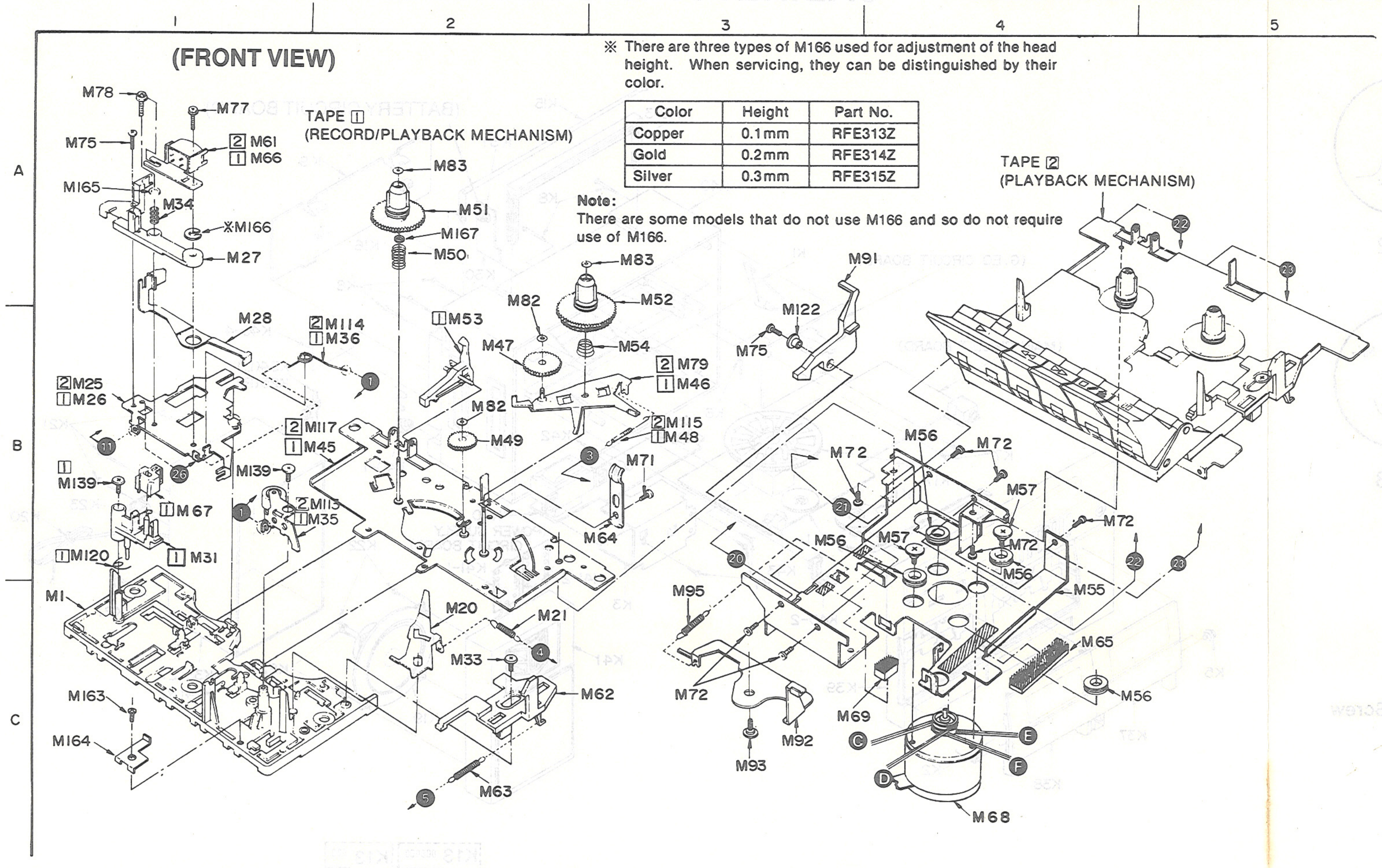

K40-3
K15
(BATTERY CIRCUIT BOARD)
K31
K9
K40
K8
(G.EQ CIRCUIT BOARD)
K1
K16
K30
K8
K40-4
(MAIN CIRCUIT BOARD)
K34(L)
K25(R)
K21
K6
K42
K7
K4
K40-1
K17
K18
K30
(POWER SUPPLY CIRCUIT BOARD)
K23
K20
K11
K41-1
K22
K43
K41-2
K7
K3
K40-2
K21
K41
K5
K22
K33(L)
K24(R)
K39
K19
K37
K2
K38


K13
K32
K29
K13
K36
K27
K10
K13
K12
K26
K13
K35
K28
K14
K7
K7

Ref. No.	Part No.	Part Code	Description
K39 ⚠ (E)	RYM1XCW26LZE	015 800 6457 2	FRONT CABINET ASS'Y M
K39 (G, I)	RYM1XCW26LZG	015 800 6456 3	FRONT CABINET ASS'Y M
K39 (Z.F)	RYM1XCW26LZK	015 800 6455 4	FRONT CABINET ASS'Y M
K40 (CH)	RYFXCW26LXCH	015 802 2997 5	REAR CABINET ASS'Y M
K40 ⚠ (E)	RYFXCW26LZEK	015 802 2931 3	REAR CABINET ASS'Y M
K40 (G, I)	RYFXCW26LZGK	015 802 2930 4	REAR CABINET ASS'Y M
K40 (Z.F)	RYFXCW26LZK	015 802 2929 7	REAR CABINET ASS'Y M
K40-1	RJC936Z	003 413 1207 0	BATTERY TERMINAL(+/-)
K40-2	RJT1072ZA		TERMINAL, ANTENNA
K40-3	RKX356Z		HANDLE, (K)
K40-4 (CH)	RGT1244PA-0	015 861 2079 3	NAME PLATE M
K40-4 (G, I)	RGT1244RA-0	015 861 2057 9	NAME PLATE M

Ref. No.	Part No.	Part Code	Description
K40-4 (E)	RGT1244TA-0	015 861 2058 8	NAME PLATE M
K41	RYM2XCW26LZK	015 800 6454 5	GRILL ASS'Y M
K41-1	RWY1XCW26MCK		TWEETER ASSY M
K41-2	RWY2XCW26M	015 846 3029 6	ORNAMENT ASSY
K42 ⚠	RJF28Z	003 400 5266 4	FUSE HOLDER
K43	RJM164Z	001 275 0579 3	MICROPHONE
ACCESORIES			
A1 [Z.F.I.G.CH] ⚠	RJA20Z	003 490 0948 1	AC CORD
A1 ⚠ (E)	RJA86Z	003 490 3941 6	AC CORD
A2 [Z.E.F.I.G]	RQX4919ZA	015 983 4936 0	OPERATING INSTRUCTIONS M
A2 (CH)	RQX4952ZA	015 983 4961 9	OPERATING INSTRUCTIONS M
PACKINGS			
P1	RPH543Z	015 978 0706 9	PROTECTION COVER
P2	RPN9537ZB	015 977 3391 1	PAD COMPLETE
P3 [Z.E.F.I.G]	RPK2419ZA	015 972 1983 6	PACKING CASE M
P3 (CH)	RPK2466ZA	015 972 2003 5	PACKING CASE M

MECHANISM PARTS LOCATION



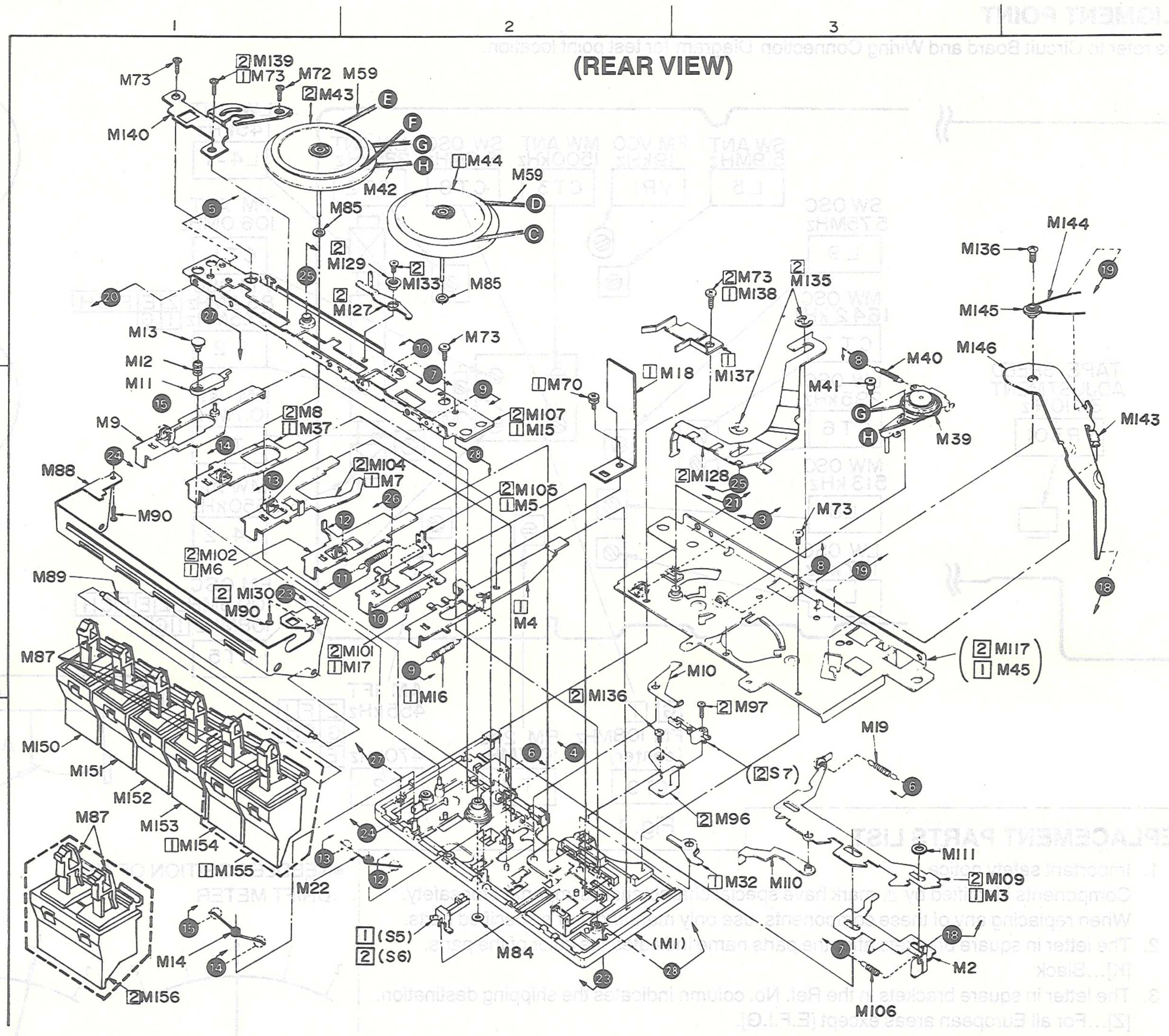
1
2
3
4
5
A
B
C
(FRONT VIEW)
TAPE 1 (RECORD/PLAYBACK MECHANISM)
TAPE 2 (PLAYBACK MECHANISM)
M78
M77
M75
2 M61
1 M66
M165
M34
※M166
M27
M28
2 M114
1 M36
1 M53
M47
2 M25
1 M26
2 M117
1 M45
1 M139
M139
2 M113
1 M35
1 M67
1 M120
1 M31
M1
M163
M164
M83
M51
M167
M50
M82
M52
M54
2 M79
1 M46
2 M115
1 M48
M49
M71
M64
M20
M21
M33
M62
M63
M91
M122
M75
M72
M56
M57
M95
M55
M65
M69
M92
M93
M68

※ There are three types of M166 used for adjustment of the head height. When servicing, they can be distinguished by their color.

Color	Height	Part No.
Copper	0.1mm	RFE313Z
Gold	0.2mm	RFE314Z
Silver	0.3mm	RFE315Z

Note:
There are some models that do not use M166 and so do not require use of M166.

M1~50	1 25 26 34 31 27 28 35 36 45 30 50 20 33 49 47 21 46 48
M51~100	78 75 67 77 61 66 83 82 53 63 51 82 79 62 64 54 83 52 95 79 71 72 93 75 92 56 72 69 56 91 57 69 72 68 57 72 56 55 72 56 65
M101~	139 163 165 120 164 166 139 117 114 113 167 115 122



1
2
3
A
B
C
(REAR VIEW)
M73
2 M139
1 M73
M72
M59
2 M43
M140
1 M44
M59
M42
M85
2 M129
2 M133
M85
2 M127
M13
M12
M11
M9
2 M73
1 M138
2 M135
M73
1 M70
1 M18
M137
2 M107
1 M15
2 M8
1 M37
2 M104
1 M7
2 M105
1 M5
M88
M90
M89
2 M102
1 M6
2 M130
M90
M87
2 M101
1 M17
1 M16
1 M4
M10
M150
M151
M152
M87
M153
1 M154
1 M155
M22
M14
2 M156
1 (S5)
2 (S6)
M84
(M1)
2 M136
2 M97
(2 S7)
2 M96
1 M32
M110
M111
2 M109
1 M3
M2
M106
M19
M136
M144
M145
M146
M143
M40
M41
M39
2 M128
M73
(2 M117 / 1 M45)

M1~50	11 12 13 9 6 14 22 43 8 37 42 17 7 16 44 15 5 4 18 10 32 41 19 40 39 2 3 (45)
M51~100	87 88 90 89 87 73 73 90 85 72 59 85 73 59 84 70 73 96 97 73
M101~	150 151 152 102 130 140 156 153 154 155 139 129 133 127 104 101 107 105 136 128 135 137 138 110 106 145 111 146 109 (117) 144 143 136

NOTES:

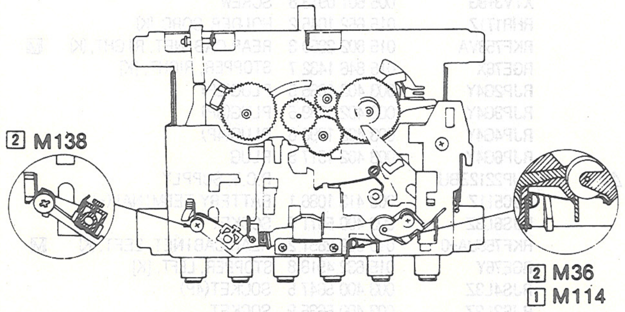
1...TAPE 1 (REC/PLAY DECK)
2...TAPE 2 (PLAY DECK)

Specifications

Playback torque	25~55 g·cm
Fast Forward torque	60~130 g·cm
Rewind torque	60~130 g·cm
Pressure of pressure roller	300~400 g
Wow and flutter	Less than 0.2% (WRMS)

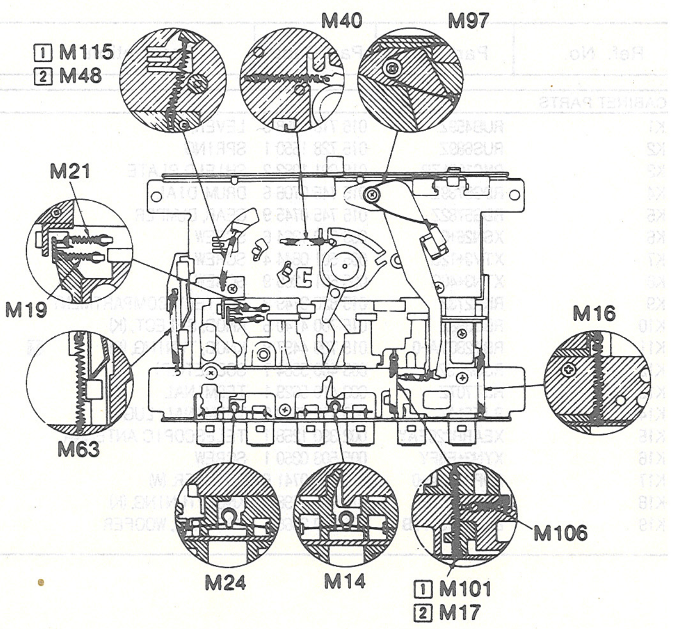
Mechanism Operation: Auto stop

●SPRING LOCATION (Top View)



2 M138
2 M36
1 M114

●SPRING LOCATION (Rear View)



M40
M97
1 M115
2 M48
M21
M19
M16
M63
M106
M24
M14
1 M101
2 M17

■ ALIGMENT POINT

*Please refer to Circuit Board and Wiring Connection Diagram for test point location.

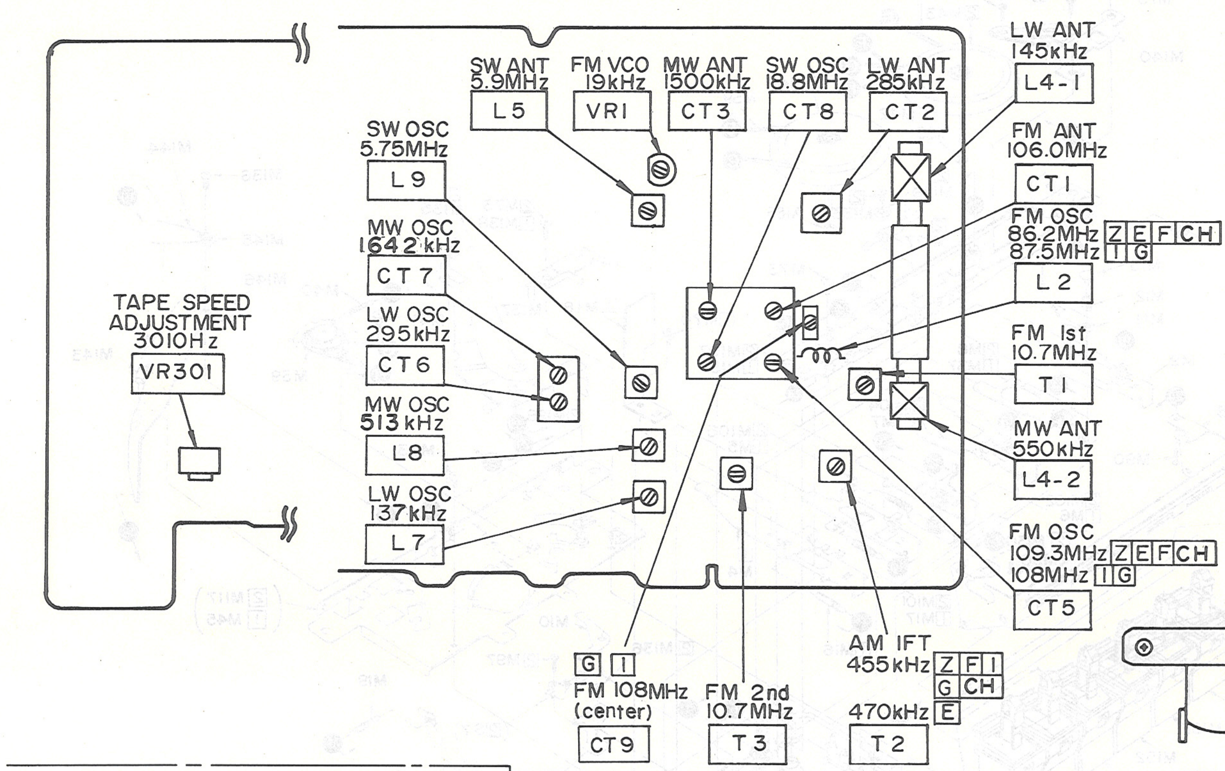

SW ANT 5.9MHz
L5
FM VCO 19kHz
VR1
MW ANT 1500kHz
CT3
SW OSC 18.8MHz
CT8
LW ANT 285kHz
CT2
LW ANT 145kHz
L4-1
FM ANT 106.0MHz
CT1
FM OSC 86.2MHz Z E F CH
87.5MHz I G
L2
FM 1st 10.7MHz
T1
MW ANT 550kHz
L4-2
FM OSC 109.3MHz Z E F CH
108MHz I G
CT5
SW OSC 5.75MHz
L9
MW OSC 1642kHz
CT7
TAPE SPEED ADJUSTMENT 3010Hz
VR301
LW OSC 295kHz
CT6
MW OSC 513kHz
L8
LW OSC 137kHz
L7
AM IFT 455kHz Z F I G CH
470kHz E
T2
G I
FM 108MHz (center)
CT9
FM 2nd 10.7MHz
T3

Fig. 1

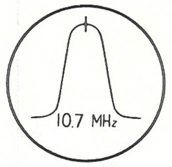


Fig. 2

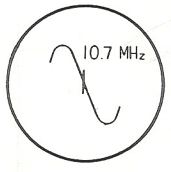
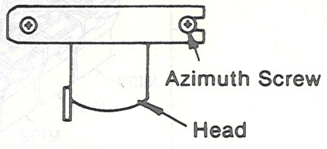


Fig. 3


Azimuth Screw
Head

■ REPLACEMENT PARTS LIST

Note: 1. Important safety notice
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

2. The letter in square brackets after the parts name indicates the color of the parts.
[K]...Black

3. The letter in square brackets in the Ref. No. column indicates the shipping destination.
[Z]...For all European areas except [E.F.I.G].
[E]...For United Kingdom.
[F]...For France.
[I]...For Italy and Finland.
[G]...For F.R. Germany.
[CH]...For Chile.

4. 🄼 mark stands for that the parts are supplied from MESA.

●NEEDLE POSITION OF THE DRIFT METER

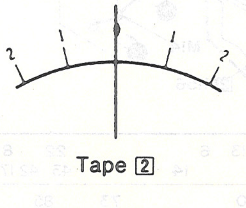


Fig. 5

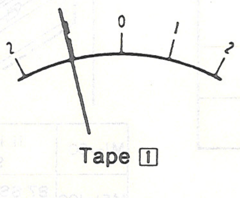
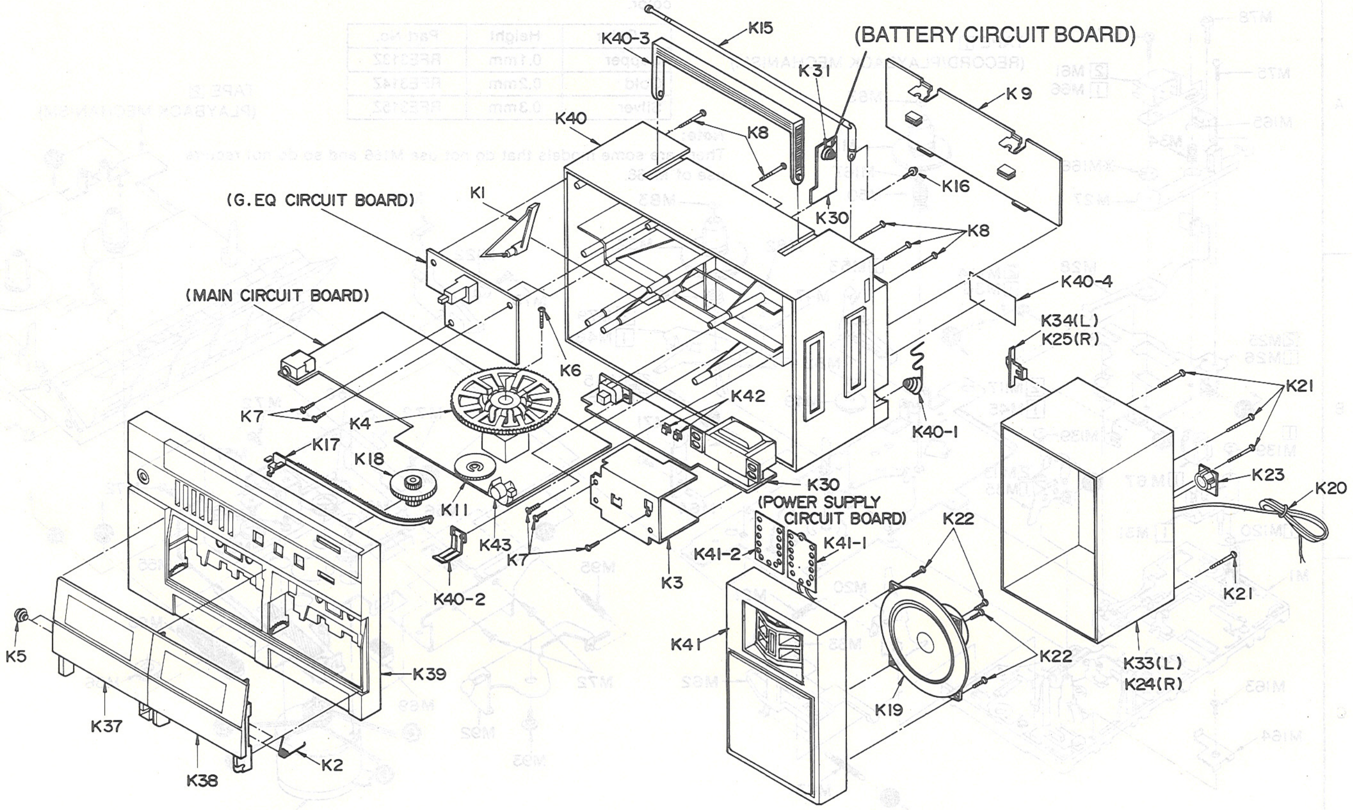
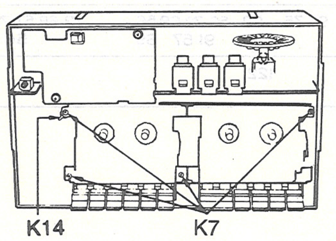

2
1
0
1
2
Tape 1

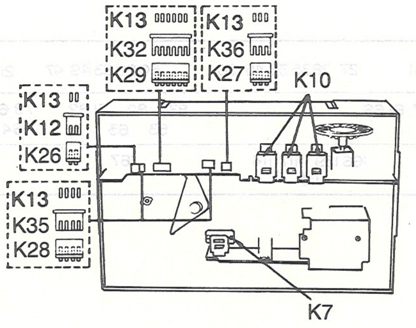
Fig. 6

Ref. No.	Part No.	Part Code	Description
CABINET PARTS			
K1	RUB459Z	015 718 4358 3	LEVER, R/P
K2	RUS689Z	015 728 1550 1	SPRING
K3	RMC1081ZB	015 601 1082 2	SHIELD PLATE
K4	RDG5739Z	015 745 0706 6	DRUM, DIAL
K5	RDG5782Z	015 745 0745 9	GEAR, DUMPER
K6	XSN26+6	005 500 1364 6	SCREW
K7	XTV3+12G	005 501 0844 4	SCREW
K8	XTN3+40G	005 501 1269 9	SCREW
K9	RKK273Z	015 820 3749 3	BATTERY COMPARTMENT
K10	RBD398Z	015 700 4140 5	KNOB, SELECT, (K)
K11	RBT280YA-0	015 700 4497 9	KNOB, TUNING, (K) 🄼
K12	RJS2L3Z	003 400 5564 7	SOCKET(2P)
K13	RJT707Z	003 410 5629 1	TERMINAL
K14	RJT514Z	003 410 5543 6	TERMINAL, LUG
K15	XEARR225EAY	002 390 1258 1	TELESCOPIC ANTENNA
K16	XYN3+F8FY	005 503 0350 1	SCREW
K17	RDP329ZA-0	015 710 0741 6	POINTER, (W)
K18	RBT283ZB-0	015 700 4498 8	KNOB, TUNING, (K)
K19	EAS12P311TB	001 260 3665 5	SPEAKER, WOOFER
K20	RJE175Y	003 492 6273 7	CORD
K21	XTV3+25G	005 501 0876 6	SCREW
K22	XTV3+8G	005 501 0913 8	SCREW
K23	RHR171Z	015 652 1045 2	HOLDER, CORD, (K)
K24	RKF758VA	015 802 2850 3	REAR CABINET, RIGHT, (K) 🄼
K25	RGE76X	015 846 1432 7	STOPPER, RIGHT, [K]
K26	RJP2G4Y	003 402 1855 5	PLUG(2P)
K27	RJP3G4Y	003 402 1889 5	PLUG(3P)
K28	RJP4G4Y	003 402 1896 6	PLUG(4P)
K29	RJP6G4Y	003 402 1917 8	PLUG
K30 ⚠	RUP2212ZBU		P.C.B. SUPPLY
K31	RJC511Z	003 413 1086 1	BATTERY TERMINAL(-)
K32	RJS6L3Z	003 400 5671 5	SOCKET
K33	RKF758UA-0	015 802 2851 2	REAR CABINET, LEFT, (K) 🄼
K34	RGE76Y	015 632 4918 8	STOPPER, LEFT, [K]
K35	RJS4L3Z	003 400 5647 5	SOCKET(4P)
K36	RJS3L3Z	003 400 5635 9	SOCKET
K37	RYQ1XCW26LZK	015 640 0462 9	CASSETTE LID ASS'Y, (R) 🄼
K38	RYQ2XCW26LZK	015 640 0461 0	CASSETTE LID ASS'Y, (P) 🄼
K39 (CH)	RYMXCW26LXCH	015 800 6525 7	FRONT CABINET ASS'Y 🄼

CABINET PARTS LOCATION


K40-3
K15
(BATTERY CIRCUIT BOARD)
K31
K9
K40
K8
K16
(G. EQ CIRCUIT BOARD)
K1
K30
K8
(MAIN CIRCUIT BOARD)
K40-4
K34(L)
K25(R)
K6
K21
K7
K4
K42
K40-1
K17
K18
K30
(POWER SUPPLY CIRCUIT BOARD)
K23
K20
K11
K22
K43
K7
K41-2
K41-1
K21
K40-2
K3
K5
K41
K22
K33(L)
K24(R)
K39
K19
K37
K2
K38




K13
K32
K29
K13
K36
K27
K10
K13
K12
K26
K13
K35
K28
K7

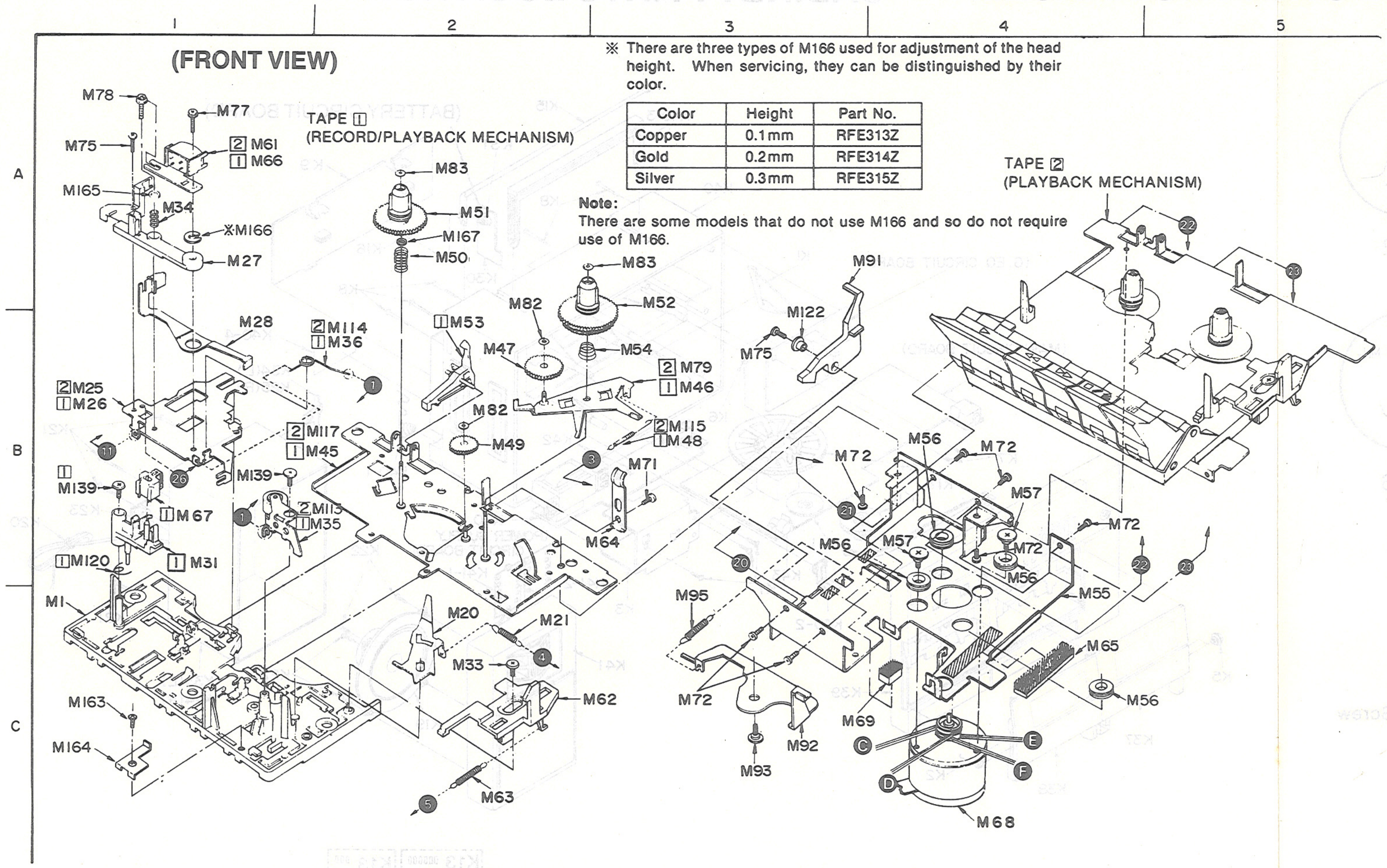
Ref. No.	Part No.	Part Code	Description
K39 ⚠ (E)	RYM1XCW26LZE	015 800 6457 2	FRONT CABINET ASS'Y 🄼
K39 (G, I)	RYM1XCW26LZG	015 800 6456 3	FRONT CABINET ASS'Y 🄼
K39 (Z.F)	RYM1XCW26LZK	015 800 6455 4	FRONT CABINET ASS'Y 🄼
K40 (CH)	RYFXCW26LXCH	015 802 2997 5	REAR CABINET ASS'Y 🄼
K40 ⚠ (E)	RYFXCW26LZEK	015 802 2931 3	REAR CABINET ASS'Y 🄼
K40 (G, I)	RYFXCW26LZGK	015 802 2930 4	REAR CABINET ASS'Y 🄼
K40 (Z.F)	RYFXCW26LZK	015 802 2929 7	REAR CABINET ASS'Y 🄼
K40-1	RJC936Z	003 413 1207 0	BATTERY TERMINAL(+/-)
K40-2	RJT1072ZA		TERMINAL, ANTENNA
K40-3	RKX356Z		HANDLE, (K)
K40-4 (CH)	RGT1244PA-0	015 861 2079 3	NAME PLATE 🄼
K40-4 (G, I)	RGT1244RA-0	015 861 2057 9	NAME PLATE 🄼
K40-4 (E)	RGT1244TA-0	015 861 2058 8	NAME PLATE 🄼
K41	RYM2XCW26LZK	015 800 6454 5	GRILL ASS'Y 🄼
K41-1	RWY1XCW26MCK		TWEETER ASSY 🄼
K41-2	RWY2XCW26M	015 846 3029 6	ORNAMENT ASSY
K42 ⚠	RJF28Z	003 400 5266 4	FUSE HOLDER
K43	RJM164Z	001 275 0579 3	MICROPHONE
ACCESORIES			
A1 [Z.F.I.G.CH] ⚠	RJA20Z	003 490 0948 1	AC CORD
A1 ⚠ (E)	RJA86Z	003 490 3941 6	AC CORD
A2 [Z.E.F.I.G]	RQX4919ZA	015 983 4936 0	OPERATING INSTRUCTIONS 🄼
A2 (CH)	RQX4952ZA	015 983 4961 9	OPERATING INSTRUCTIONS 🄼
PACKINGS			
P1	RPH543Z	015 978 0706 9	PROTECTION COVER
P2	RPN9537ZB	015 977 3391 1	PAD COMPLETE
P3 [Z.E.F.I.G]	RPK2419ZA	015 972 1983 6	PACKING CASE 🄼
P3 (CH)	RPK2466ZA	015 972 2003 5	PACKING CASE 🄼

MECHANISM PARTS LOCATION

※ There are three types of M166 used for adjustment of the head height. When servicing, they can be distinguished by their color.

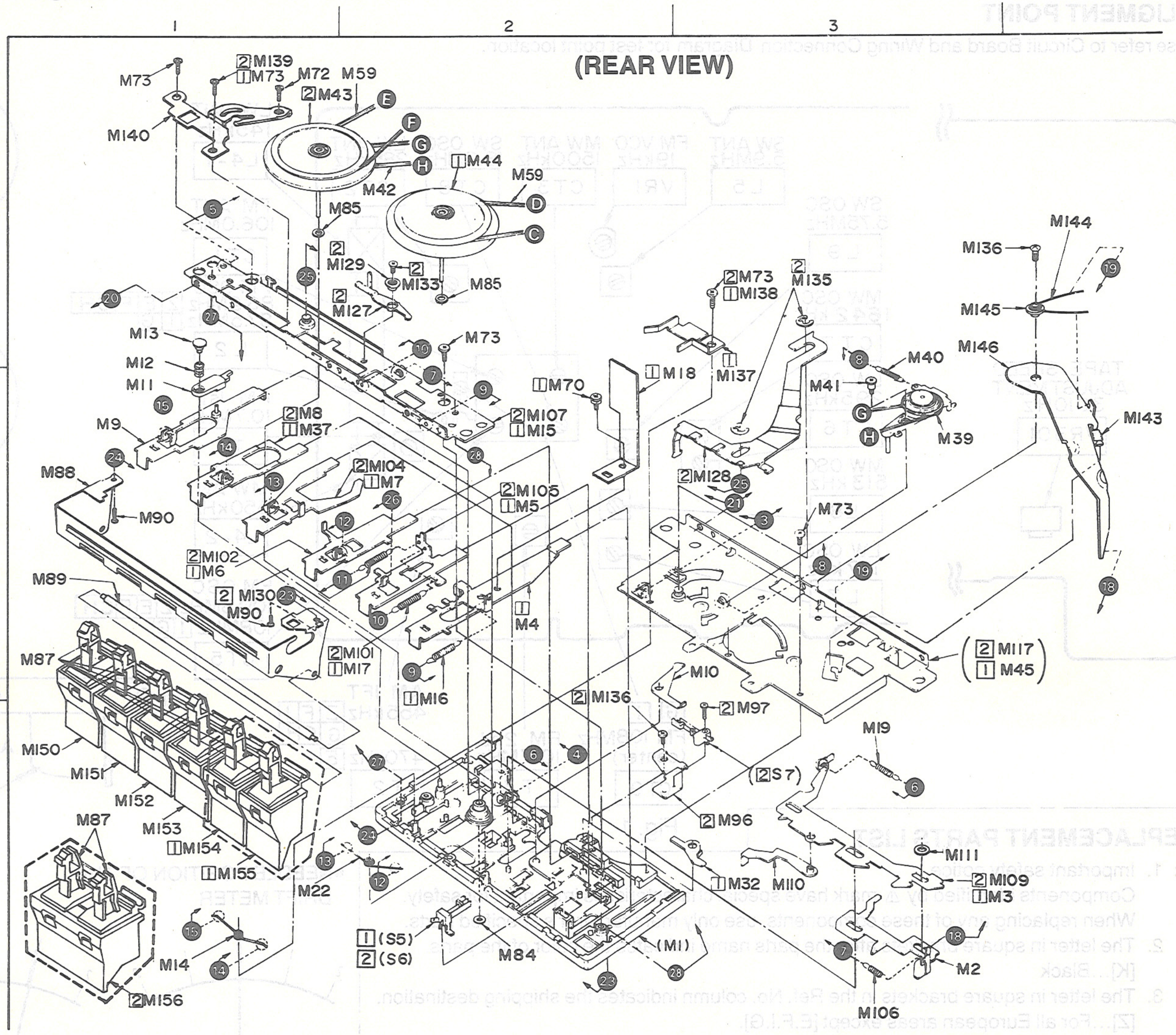
Color	Height	Part No.
Copper	0.1mm	RFE313Z
Gold	0.2mm	RFE314Z
Silver	0.3mm	RFE315Z

Note:
There are some models that do not use M166 and so do not require use of M166.



1
2
3
4
5
A
B
C
(FRONT VIEW)
TAPE [1] (RECORD/PLAYBACK MECHANISM)
TAPE [2] (PLAYBACK MECHANISM)
M78
M77
M75
[2] M61
[1] M66
M165
M34
※M166
M27
M83
M51
M167
M50
M83
M52
M82
M47
M54
[2] M79
[1] M46
M28
[2] M114
[1] M36
[1] M53
[2] M25
[1] M26
M82
M49
[2] M115
[1] M48
[2] M117
[1] M45
[1] M139
M139
[1] M67
[2] M113
[1] M35
[1] M120
[1] M31
M1
M20
M21
M33
M62
M163
M164
M63
M64
M71
M72
M56
M57
M91
M122
M75
M95
M55
M65
M56
M69
M72
M93
M92
M68

M1~50	1 25 26 34 31 27 28 35 36 45 30 50 20 33 49 47 21 46 48
M51~100	78 75 67 77 61 66 83 82 51 82 79 62 83 52 95 79 93 75 92 56 72 69 56 72 68 57 72 55 72 56 53 63 64 54 71 72 91 57 69 56 65
M101~	139 163 165 166 139 117 114 167 115 122 120 164 113



1
2
3
A
B
C
(REAR VIEW)
M73
[2] M139
[1] M73
M72
M59
[2] M43
M140
[1] M44
M42
M59
M85
[2] M129
M133
M85
[2] M127
M73
M13
M12
M11
M9
M88
M90
M89
M87
M150
M151
M152
M153
[1] M154
[1] M155
M22
M14
[2] M156
M87
[2] M8
[1] M37
[2] M104
[1] M7
[2] M105
[1] M5
[2] M107
[1] M15
[1] M70
[1] M18
[1] M137
[2] M73
[1] M138
[2] M135
M144
M136
M145
M146
M143
M40
M41
M39
[2] M128
M73
[2] M102
[1] M6
[2] M130
M90
[1] M4
[2] M101
[1] M17
[1] M16
[2] M136
M10
[2] M97
M19
([2] S7)
[2] M96
M111
[2] M109
[1] M3
[1] M32
M110
M2
M106
(M1)
M84
[1] (S5)
[2] (S6)
([2] M117 [1] M45)

M1~50	11 12 13 6 22 8 37 16 44 15 5 18 41 40 2 3 9 14 43 42 17 7 4 10 32 19 39 (45)
M51~100	87 88 90 73 85 59 85 73 59 84 73 96 97 73 89 87 73 90 72 70
M101~	150 151 152 102 130 139 129 133 107 105 128 135 145 111 109 144 143 140 156 153 154 155 127 104 101 136 137 138 110 106 146 (117) 136

NOTES:

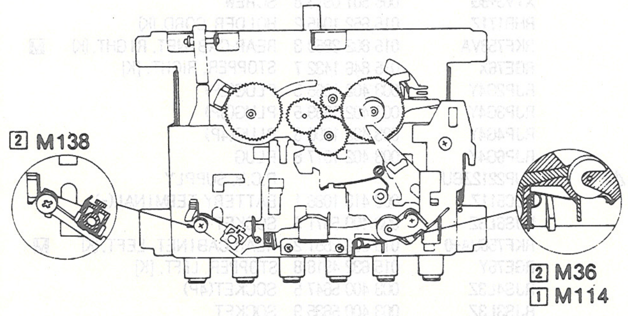
[1]...TAPE [1] (REC/PLAY DECK)
[2]...TAPE [2] (PLAY DECK)

Specifications

Playback torque	25~55 g·cm
Fast Forward torque	60~130 g·cm
Rewind torque	60~130 g·cm
Pressure of pressure roller	300~400 g
Wow and flutter	Less than 0.2% (WRMS)

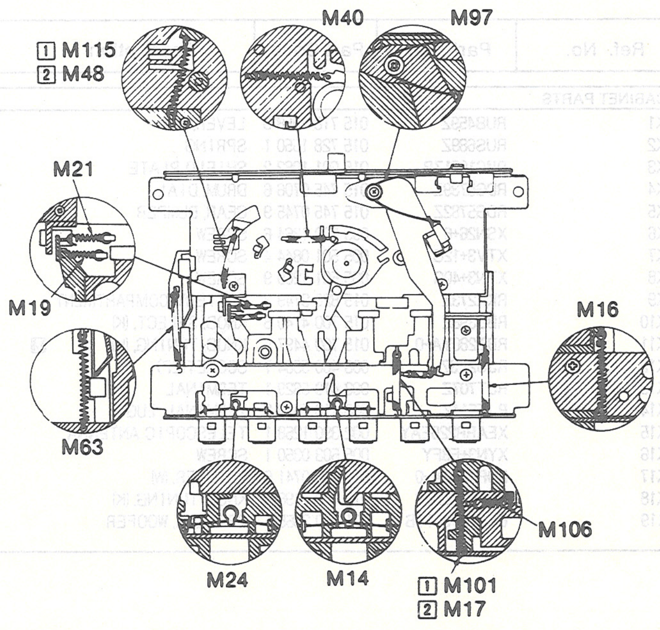
Mechanism Operation: Auto stop

• SPRING LOCATION (Top View)



[2] M138
[2] M36
[1] M114

• SPRING LOCATION (Rear View)



M40
M97
[1] M115
[2] M48
M21
M19
M16
M63
M106
M24
M14
[1] M101
[2] M17

D

■ MECHANISM PARTS LIST

Note:

1. The letter in square brackets after the parts name indicates the color of the parts.
   [S]…Silver, [C]…Copper, [A]…Gold
2. The letter in square brackets after the Ref. No. column indicates the type of the mechanism.
   [1]…Tape-1 (Rec/Playback Deck), [2]…Tape-2 (Playback Deck)
3. There are three types of M166 used for adjustment of the head height.
   When servicing, they can be distinguished by their color.
   There are some models that do not use M166 and so do not require use of M166.
4. 🄼 mark stands for that the parts are supplied from MESA.

Ref. No.	Part No.	Part Code	Description
MECHANICAL PARTS			
M1	RFU61Z	015 630 1637 6	BUTTON BASE ASS'Y
M2	RFY541Z	015 632 4902 6	LEVER, SWITCH ACTUATOR
M3 [1]	RFY579Z	015 718 4086 8	LEVER
M4 [1]	RFY594Z	015 718 4100 7	LEVER, RECORD
M5 [1]	RFY630Z	015 718 4241 5	LEVER, PLAYBACK
M6 [1]	RFY631Z	015 718 4242 4	LEVER, REWIND
M7 [1]	RFY632Z	015 718 4243 3	LEVER, FAST FORWARD
M8 [2]	RFY633Z	015 718 4244 2	LEVER, STOP/EJECT
M9	RFY621Z	015 718 4197 2	LEVER, PAUSE
M10	RFY548Z	015 718 3505 4	LEVER, REWIND ACTUATOR
M11	RFG86Z	015 716 0091 7	CAM, PAUSE
M12	RUXC34M	015 630 2334 4	SPRING, PAUSE CAM
M13	RFS536Z	015 652 0880 9	STOPPER, PAUSE SPRING
M14	RFS462Z	015 728 1267 1	SPRING, BUTTON LEVER(C)
M15 [1]	RFU83Z	015 630 2240 9	SUB CHASSIS ASS'Y
M16 [1]	RFS463Z	015 728 1268 0	SPRING, BUTTON LEVER(A)
M17 [1]	RFS530Z	015 726 2469 9	SPRING
M18 [1]	RFS562Z	015 726 3075 9	SPRING, RECORD LEVER
M19	RFS466Z	015 726 2449 3	SPRING
M20	RFY549Z	015 718 3506 3	LEVER, AUTO STOP ACTUATOR
M21	RFS596Z	015 728 1533 2	SPRING
M22	RFS561Z	015 728 1420 0	SPRING, BUTTON LEVER(B)
M25 [2]	RFU72Z	015 630 2140 2	HEAD PANEL
M26 [1]	RFE227Z	015 652 0878 3	HEAD PANEL
M27	RFU39Z	015 630 1611 6	HEAD BASE
M28	RFY394Z	015 718 3434 2	DETECTION LEVER ASS'Y
M31 [1]	RFY397Z		ARM, ERASE HEAD
M32 [1]	RFX101Z	015 643 0652 0	PR STOPPER
M33	RFE255Z	005 500 5644 5	SCREW
M34	RFS447Z	015 726 2437 7	SPRING, AZIMUTH ADJ.
M35 [1]	RFR29Z	015 740 0302 7	PINCH ROLLER ASS'Y
M36 [1]	RFS448Z	015 728 1261 7	SPRING
M37 [1]	RFY598Z	015 718 4104 3	LEVER, STOP/EJECT
M39 [1]	RFY756ZA	015 718 4601 1	LEVER
M40	RFS532Z	015 728 1316 9	SPRING, RF PULLEY ARM
M41	RFE353ZA	005 500 7847 8	SCREW
M42	RFB62Z	015 754 0288 2	BELT, RF
M43 [2]	RFF49ZA	015 756 0451 9	FLYWHEEL
M44 [1]	RFF48ZA	015 756 0450 0	FLYWHEEL
M45 [1]	RFJ67ZA	015 630 2445 8	CHASSIS ASS'Y
M46 [1]	RFY723ZA	015 718 4459 9	LEVER
M47	RFG99ZA	015 745 1088 5	GEAR
M48 [1]	RFS450Z	015 726 2440 2	SPRING, TAKEUP REEL TABLE
M49	RFG62Z	015 745 0850 9	GEAR, FAST FORWARD
M50	RFS537Z	015 726 2473 3	SPRING, BACK TENSION
M51	RFJ50Z	015 765 0488 5	SUPPLY REEL TABLE ASS'Y
M52	RFJ53Z	015 765 0526 6	TAKEUP REEL TABLE ASS'Y
M53 [1]	RFY716Z	015 718 4355 6	LEVER, ERASE SAFETY
M54	RFS563Z	015 728 1421 9	SPRING, BACK TENSION
M55	RFD228Z	015 641 1320 3	BRACKET, MOTER
M56	SMQ2504	016 650 0368 2	CUSHION, MOTOR
M57	SMQ4918	005 500 4521 9	SCREW
M59	RFB63Z	015 754 0289 1	BELT, MAIN
M61 [2]	RJH2E12X	001 270 1124 1	PLAY BACK HEAD, PLAYBACK
M62	RFY685Z	015 718 4311 8	LEVER, STOP/EJECT SLIDE
M63	RFS564Z	015 728 1422 8	SPRING
M64	RFS467Z	015 727 0783 5	SPRING, CASSETTE HOLDER
M65	RFI41Z	015 653 1108 9	MAT-B
M66 [1]	RJH2E9X	001 270 1135 8	HEAD, R/P
M67 [1]	RJH2C12XZ	001 270 1359 4	HEAD, ERASE
M68	RFM107ZA	002 310 2409 8	DC MOTOR
M69	RFI35Z	015 653 1073 3	MAT-A
M70 [1]	RFE229Z	005 500 4351 9	SCREW(RECORD LEVER MT'G)
M71	XTN2+3B	005 501 1408 6	SCREW
M72	XTN2+4B	005 501 0252 2	
M73	XTN2+4FN	005 501 2157 2	TAPPING SCREW
M75	XSN2+6	005 500 1297 0	
M77	XSN2+8	005 500 1301 1	SCREW
M78	RFE230Z	005 500 4352 8	SCREW, AZIMUTH ADJ.
M79 [2]	RFY580Z	015 718 4087 7	LEVER
M82	RFN143Z	005 513 3263 1	WASHER
M83	RFN142Z	005 513 3262 2	WASHER
M84	RFN123Z	005 513 3242 6	WASHER(FLYWHEEL MT'G)
M85	RFE354ZA	005 513 4851 3	WASHER
M87	RFY636Z	015 718 4247 9	LEVER, OPERATION
M88	RFD252Z	015 702 3716 1	FRAME, BUTTON
M89	RFY525Z	015 713 1854 9	SHAFT, BUTTON LEVER
M90	RFE242Z	005 500 5003 2	SCREW(BUTTON FRAME MT'G)
M91	RFY582Z	015 718 4089 5	LEVER, P KICK (B)
M92	RFY583Z	015 718 4090 2	LEVER, P KICK (A)
M93	RFE239Z	005 500 5057 8	SCREW(P KICK (A) MT'G)
M95	RFS687ZA	015 726 3022 2	SPRING
M96 [2]	RFD230Z	015 641 1322 1	BRACKET, SWITCH
M97 [2]	RFE102Z	005 500 4308 2	SCREW(LEAF SWITCH MT'G)
M101 [2]	RFS566Z	015 726 3076 8	SPRING
M102 [2]	RFY596Z	018 718 4102 1	LEVER, REWIND
M104 [2]	RFY597Z	015 718 4103 4	LEVER, FAST FORWARD
M105 [2]	RFY595Z	015 718 4101 6	LEVER, PLAYBACK
M106	RFS567Z	015 728 1424 6	SPRING
M107 [2]	RFU70Z	015 630 2138 6	SUB CHASSIS ASS'Y
M109 [2]	RFY592Z	015 718 4098 4	LEVER
M110	RFY591Z	015 718 4097 5	LEVER, E KICK
M111	RFN167Z	005 513 4020 4	WASHER
M113 [2]	RFR26Z	015 740 0299 5	PINCH ROLLER ASS'Y
M114 [2]	RFS569Z	015 728 1426 4	SPRING, PINCH ROLLER
M115 [2]	RFS570Z	015 728 1427 3	SPRING, TAKEUP REEL TABLE
M117 [2]	RFJ68ZA	015 630 2444 9	CHASSIS ASS'Y
M120 [1]	RFS535Z	015 728 1317 8	SPRING, ERASE HEAD ARM
M122	RFX134Z	015 643 0956 7	COLLAR(B)
M127 [2]	RFY589Z	015 718 4095 7	LEVER, RC
M128 [2]	RFY573Z	015 718 4085 9	LEVER, RC SLIDE
M129 [2]	RFX130Z	015 643 0952 1	COLLAR
M130 [2]	RFS572Z	015 728 1429 1	SPRING, RC
M133 [2]	XQS2+25	005 500 4642 1	SCREW(RC LEVER MT'G)
M135 [2]	XUC2FT	005 512 0126 6	STOP RING
M136	RFE221Z	005 500 4348 4	SCREW
M137 [1]	RFD232Z	015 641 1324 9	BRACKET, PAUSE PREVENTION
M138 [1]	RFE222Z	005 500 4349 3	SCREW
M139	RFE245Z	005 500 5048 9	SCREW
M140	RFE279Z	015 641 1343 6	METAL, GUIDE
M143	RFI37Z	015 748 0037 5	RUBBER, BRAKE
M144	RFS629Z	015 728 1558 3	SPRING, BRAKE LEVER
M145	RFX133Z	015 643 0955 8	COLLAR, BRAKE LEVER
M146	RFY717Z	015 718 4356 5	LEVER, BRAKE
M150	RBC888XA-0	015 702 4289 5	BUTTON, PAUSE [S] 🄼
M151	RBC887XA-0	015 702 4290 2	BUTTON, STOP EJECT [S] 🄼
M152	RBC886XA-0	015 702 4291 1	BUTTON, FF [S] 🄼
M153	RBC885XA-0	015 702 4292 0	BUTTON, REWIND [S] 🄼
M154 [1]	RBC884XA-0	015 702 4293 9	BUTTON, PLAYBACK [S] 🄼
M155 [1]	RBC883XA-0	015 702 4294 8	BUTTON, RECORD [S] 🄼
M156 [2]	RBC889XA-0	015 702 4288 6	BUTTON, PLAYBACK [S] 🄼
M163	RFE280ZA		SCREW
M164	RFD269Z		BRACKET
M165	RFE297Z		WASHER
M166	RFE313Z		WASHER [C]
M166	RFE314Z		WASHER [A]
M166	RFE315Z		WASHER [S]
M167	RFN170Z		WASHER

■ REPLACEMENT PART LIST

Note:

1. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
2. The letter in square brackets in the Ref. No. column indicates the shipping destination.
   [Z]…For all European areas except [E.F.I.G]. [F]…For France [G]…For F.R. Germany
   [E]…For United Kingdom. [I]…For Italy and Finland [CH]…For Chile
3. 🄼 mark stands for that the parts are supplied from MESA.

Ref. No.	Part No.	Part Code	Description
INTEGLATED CIRCUITS			
IC1	AN7205	001 061 0362 8	IC
IC2	BA4236L	001 061 0259 6	IC
IC3	RVIBA1332L	001 060 6555 2	IC
IC301	BA3402M	001 061 0833 8	IC
IC302	BA3308M	001 061 2544 6	IC
IC303	BA3822LS	001 061 1434 5	IC
IC304	LA4108R	001 060 7747 2	IC
TRANSISTORS			
Q101, Q201	2SC3311RTA		TRANSISTOR
Q302	2SC3311RTA		TRANSISTOR
Q303	2SD1302	001 030 2519 0	TRANSISTOR
Q304	2SC3311RTA		TRANSISTOR
Q305	2SC1740SLNST	001 030 4248 6	TRANSISTOR
Q306	2SC3311RTA		TRANSISTOR
Q307	UN4214	001 030 4835 3	TRANSISTOR
Q308	2SK381CD		TRANSISTOR
Q312	2SD1302	001 030 2519 0	TRANSISTOR
DIODES			
D2, D3	MA165	001 032 0494 0	DIODE
D301, D302	MA165	001 032 0494 0	DIODE
D303, D304	MA165	001 032 0494 0	DIODE
D308	MA4068MTA		DIODE
D451	LN012336PH	001 032 8950 5	DIODE
D601, D602	RVD1SR35	001 032 6336 9	DIODE
D603, D604	RVD1SR35	001 032 6336 9	DIODE
D605, D606	RVD1SR35	001 032 6336 9	DIODE
COILS			
L2 (G, I)	RL04N233-0	001 211 3632 9	COIL
L2 (Z.E.F.CH)	RL04Y93W-0	001 211 2466 9	OSCILLATOR COIL
L3	RLQY30S1	001 210 9809 3	CHOKE COIL
L4	RLF6W9	001 214 1430 0	FERRITE ANTENNA COIL
L5	RLA3B41	001 210 9288 6	COIL, SW ANT
L7	RL01B13	001 211 2509 5	OSILLATOR COIL
L8	RL02B108	001 211 0900 0	OSCILLATOR COIL
L9	RL03B87	001 211 0912 6	OSCILLATOR COIL
L101, L201	RLQY30S1	001 210 9809 3	CHOKE COIL
L301	RL09B17	001 211 0985 9	COIL
L302	RLQY30S1	001 210 9809 3	CHOKE COIL
L303	RLQZD101K	001 210 9884 2	COIL
L601, L602 (G, I)	RLQZB470K	001 210 9876 2	COIL
TRANSFORMERS			
T1	RLI4B153	001 215 2499 0	I.F.T
T2	RLI2B153	001 215 2349 3	I.F.T
T3	RLI4B153	001 215 2499 0	I.F.T
T601 ⚠ (E)	RLT5K3A8A-S		POWER TRANSFORMER 🄼
T601 ⚠ (Z.F.I.G.CH)	RLT5K3G17A-S		POWER TRANSFORMER 🄼
VARIABLE CAPACITORS			
VC1	RCV4RC2RA	001 141 0488 0	VARIABLE CAPACITOR
VC5	RCVMFTPC17	001 142 0497 4	VARIABLE CAPACITOR
TRIMMER CAPACITORS			
CT2	RCVPL20A	001 142 0500 6	TRIMMER
CT6, CT7	RCV2PL10A	001 142 0513 1	TRIMMER
CT9 (G, I)	RCVCTZ3210	001 142 0327 1	TRIMMER CAPACITOR
VARIABLE RESISTORS			
VR1	EVND4AA00B14	001 180 2242 3	VARIABLE RESISTOR
VR301	EVND1AA00B14	001 180 2550 4	VARIABLE RESISTOR
VR451, VR452	EWASA3VABG54	001 174 8695 0	VARIABLE RESISTOR
VR453, VR454	EWASA3VABG54	001 174 8695 0	VARIABLE RESISTOR
VR455	EWASA3VABG54	001 174 8695 0	VARIABLE RESISTOR
VR456	EWASE3BABB54	001 174 8696 9	VARIABLE RESISTOR
VR457	EWASJ3VABG15		VARIABLE RESISTOR
FILTERS			
CF1	RVF107WDZ	001 241 1112 8	CERAMIC FILTER
CF2 (Z.F.I.G.CH)	RVFSFZ455JZ	001 241 1111 9	CERAMIC FILTER
CF2 (E)	RVFSFZ470JL	001 241 1147 7	CERAMIC FILTER
COMPONENTS COMBINATION			
Z1	EXCFF76108L	001 230 1587 8	COMPONENT COMBINATIONS
SWITCHES			
S1	RSS4H02Z	003 431 2847 8	SWITCH, BAND
S2	RSS3B22Z	003 431 2788 2	SWITCH, EDITING/B.P
S3	RSS3D13Z	003 431 2815 6	SWITCH, FUNCTION
S4	RSH2H03U	003 435 5968 8	SWITCH, R/P
S5, S6	RFA77ZA	003 434 1046 2	LEAF SWITCH,
S7	RFA73Z	003 434 1014 0	LEAF SWITCH
JACKS			
J1	RJF1098ZA-H		JACK, SPEAKER 🄼
J2	RJF1099Z	003 410 7367 6	JACK, LINE IN
J3	RJJD7S2Z	003 400 6898 4	JACK, HEADPHONE
J4 (S8) ⚠ (Z.F.I.G.CH)	RJJ1A4ZD		JACK, AC
J4 (S8) ⚠ (E)	RJJ1A5Z	003 400 6054 0	JACK, AC
FUSES			
F1 ⚠	XBA2C12TB0U	002 380 1645 0	FUSE, T 1.25A

RESISTORS & CAPACITORS

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)

ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity

ECEA	50	M	R47
Type	Voltage	Peculiarity	Value (0.47μF)

Resistor Type	Wattage	Tolerance
ERD: Carbon Resistor	10 : $^{1}/_{8}$W	F : ±1%
ERC: Solid Resistor	25 : $^{1}/_{4}$W	G : ±2%
ERF: Incombustible	50 : $^{1}/_{2}$W	J : ±5%
Box-Shaped	18 : $^{1}/_{8}$W	K : ±10%
Wire-Wound	14 : $^{1}/_{4}$W	M : ±20%
Resistor	12 : $^{1}/_{2}$W	
ERG: Metal Oxide-Film	1 : 1W	
Resistor	2 : 2W	
ERM: Wire-Wound	3 : 3W	
Resistor	S1 : $^{1}/_{2}$W	
ERO: Superstable	S2 : $^{1}/_{4}$W	
Metal Film	6G : $^{1}/_{10}$W	
Resistor	8G : $^{1}/_{8}$W	
ERX: Metal-Film		
Resistor		
RRJ: ERJ: Chip Resistor		

Capacitor Type	Voltage	Tolerance
ECCD: Ceramic Capacitor	(ECCD, ECKD Type)	K : ±10%
(Chitacon)	1H : 50V DC 2H : 500V DC	M : ±20%
ECKD: Ceramic Capacitor	(ECFD Type)	Z : $^{+80}_{-20}$%
(Chitabari)	C : 12V DC D : 25V DC	
ECFD: Semiconductor	E : 50V DC	J : ±5%
Ceramic Capacitor	(ECQ Type)	G : ±2%
ECE□: Electrolytic Capacitor	05 : 50WV DC 1 : 100WV DC	F : ±1%
ECS□: Tantalum Fixed	(ECE, ECS Type)	C : ±0.25pF
Electrolytic Capacitor	0G : 4V 0J : 6.3V	D : ±0.5pF
ECQ□: Polystyrenc Film	1A : 10V 1C : 16V	F : ±1pF
Capacitor	1E : 25V 1V : 35V	
ECQS: Polystyrene Film	1H : 50V 1J : 63V	
Capacitor	2A : 100V	
ECQS: Polypropylene Film		
Capacitor		
ECQV: T.F Capacitor		
ECU□: RCU□: Chip Capacitor		
ECBT: Cylindrical Ceramic Capacitor		

※ Capacity are in microtarads (μF) unless specified otherwise, P=Pico-farads.

※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Note:

1. The letter in square brackets in the Ref. No. column indicates the shipping destination.

[Z]…For all European areas except [E.F.I.G]. [F]…For France [G]…For F.R. Germany
[E]…For United Kingdom. [I]…For Italy and Finland [CH]…For Chile

Ref. No.	Part No.	Part Code
CAPACITORS		
C1	RCBS1H102KB	001 103 5571 0
C2	ECCD1H470KC	
C3	RCBC1H4R7KC	001 103 5542 5
C4	RCBS1H180JC	001 103 5591 6
C5	ECCT1H100KC	
C6	ECCD1H470KC	
C7	ECCD1H331K	001 103 0578 3
C8	RCBS1H102KB	001 103 5571 0
C9	RCBS1H100JC	001 103 5563 0
C10	RCBS1H180JC	001 103 5591 6
C11	RCBC1H470JL	001 103 7090 4
C12	RCBS1H220JL	001 103 5601 1
(Z.E.F.CH)		
C13	RCBS1H102KB	001 103 5571 0
C14	ECCT1H100KC	
C15	RCBS1H8R2KC	001 103 5644 0
C16	ECCT1H150KC	
C17	ECQP2A151JZ	001 106 3519 7
C18	ECQP2A361JZ	001 106 3537 5
C19	ECQP2A392JZ	001 106 3540 0
C20	ECFT1C333MD	001 108 0569 9
C21	ECCT1H120KC	
C22	ECQP2A221JZ	001 106 3527 7
C23	ECCT1H070DC	
C24	ECKF1H102KB	001 103 1796 1
C30	ECFT1C333MD	001 108 0569 9
C31	ECEA1HU2R2	001 120 3253 2
C35	ECFT1C223MD	001 108 0565 3
C36	ECEA0JU101B	
C38	ECFT1C103MD	001 108 0560 8
C40	ECFT1C333MD	001 108 0569 9
C41, C42	ECFT1C223MD	001 108 0565 3
C43	ECCD1H331K	001 103 0578 3
C44	ECEA50ZR47E	001 120 1287 0
C45	ECEA1HU4R7	
C46	ECEA1HU010	001 120 2960 6
C47	ECFT1C153MD	001 108 0564 4
C48	ECEA50ZR47E	001 120 1287 0
C49	ECEA1CU100	001 120 2958 0
C50	ECEA1HU2R2	001 120 3253 2
C51	ECQP2A102JZT	
C52, C53	ECFT1C153MD	001 108 0564 4
C54, C55	ECEA1HU010	001 120 2960 6
C56	ECCT1H180KT	
(G, I)		
C101, C102	ECKD1H471KB	001 103 1551 0
C103	ECEA0JU470	001 120 3858 9
C105	ECFD1C333KDY	
C106	ECEA50ZR47E	001 120 1287 0
C107	ECFT1C223MD	001 108 0565 3
C108	ECFT1C152KDY	
C109	ECEA0JU470	001 120 3858 9
C110	ECEA1HU010	001 120 2960 6
C111	ECCD1H101K	001 103 0341 2
C112	ECFT1C333MD	001 108 0569 9
C121	ECKF1H102KB	001 103 1796 1
C122	ECEA0JU101B	
C123	ECEA1EU470B	
C124	ECEA1HU010	001 120 2960 6
C125	ECFV1E473MD	001 108 0700 4
C126	ECEA1AU471	001 120 3728 8
C127	ECFV1C104MD	001 108 0691 8
C201, C202	ECKD1H471KB	001 103 1551 0
C203	ECEA0JU470	001 120 3858 9
C205	ECFD1C333KDY	
C206	ECEA50ZR47E	001 120 1287 0
C207	ECFT1C223MD	001 108 0565 3
C208	ECFT1C152KDY	
C209	ECEA0JU470	001 120 3858 9
C210	ECEA1HU010	001 120 2960 6
C211	ECCD1H101K	001 103 0341 2
C212	ECFT1C333MD	001 108 0569 9
C221	ECKF1H102KB	001 103 1796 1
C222	ECEA0JU101B	
C223	ECEA1EU470B	
C224	ECEA1HU010	001 120 2960 6
C225	ECFV1E473MD	001 108 0700 4
C226	ECEA1AU471	001 120 3728 8
C227	ECFV1C104MD	001 108 0691 8
C301	ECEA1CU100	001 120 2958 0
C302	ECEA0JU221	001 120 2925 9
C303	ECEA0JU330	001 120 3857 0
C304	ECCD1H101K	001 103 0341 2
C305	ECFV1C104MD	001 108 0691 8
C306	ECCT1H181K	
C307	ECKF1H102KB	001 103 1796 1
C308	ECQS2B272KZ	001 106 3594 6
C309	ECEA0JU221	001 120 2925 9
C310, C311	ECFT1C223MD	001 108 0565 3
C312	ECFT1C103MD	001 108 0560 8
C314	ECKD1H471KB	001 103 1551 0
C315	ECEA1HU010	001 120 2960 6
C316	ECKD1H471KB	001 103 1551 0
C317	ECEA0JU101B	
C318	ECFT1C223MD	001 108 0565 3
C319, C321	ECEA1CU100	001 120 2958 0
C322	ECEA1CU100	001 120 2958 0
C323	ECEA0JU471	001 120 3620 9
C331	ECEA1CV221SE	
C339	ECEA1CU330	001 120 2834 1
C340	ECEA1CU220	001 120 2906 2
C341	ECEA1AU471	001 120 3728 8
C342	ECEA1CU332	001 120 3201 4
C343, C344	ECKD1H103ZF	001 103 1449 7
C401, C402	ECEA1HU010	001 120 2960 6
C403	ECKF1H102KB	001 103 1796 1
C404	ECFV1E473MD	001 108 0700 4
C405	ECKT1H332MD	001 103 1856 6
C406	ECEA1HU0R1	001 120 3250 5
C407	ECFT1C103MD	001 108 0560 8
C408	ECEA1HUR33	001 120 3248 9
C409	ECFV1E473MD	001 108 0700 4
C410	ECEA1HU010	001 120 2960 6
C411	ECFT1C223MD	001 108 0565 3
C412	ECEA1CU100	001 120 2958 0
C413	ECKD1H471KB	001 103 1551 0
C451	ECEA0JU471	001 120 3620 9
C501, C502	ECEA1HU010	001 120 2960 6
C503	ECKF1H102KB	001 103 1796 1
C504	ECFV1E473MD	001 108 0700 4
C505	ECKT1H332MD	001 103 1856 6
C506	ECEA1HU0R1	001 120 3250 5
C507	ECFT1C103MD	001 108 0560 8
C508	ECEA1HUR33	001 120 3248 9
C509	ECFV1E473MD	001 108 0700 4
C510	ECEA1HU010	001 120 2960 6
C511	ECFT1C223MD	001 108 0565 3
C512	ECEA1CU100	001 120 2958 0
C513	ECKD1H471KB	001 103 1551 0
C601, C602	ECKD1H103ZF	001 103 1449 7
C603, C604	ECKD1H103ZF	001 103 1449 7
C605, C606	ECKD1H103ZF	001 103 1449 7
C607	ECEA1CV221SE	
RESISTORS		
R1	ERDS2TJ470	001 152 2442 5
R2	ERDS2TJ101	001 152 2421 0
R3	ERDS2TJ332	001 152 2357 1
R4	ERDS2TJ470	001 152 2442 5
R8	ERDS2TJ221	001 152 2431 8
R10	ERDS2TJ101	001 152 2421 0
R13	ERDS2TJ330	001 152 3935 5
R16	ERDS2TJ272	001 152 2354 4
(F)		
R16	ERDS2TJ392	001 152 2439 0
(Z.E.G.I.CH)		
R17 [Z.E.F.CH]	ERDS2TJ272	001 152 2354 4
R17 [G.I]	ERDS2TJ682	
R18	ERDS2TJ102	001 152 2346 4
R19, R20	ERDS2TJ680	001 152 2448 9
R21	ERDS2TJ472	001 152 2362 4
R22, R23	ERDS2TJ821	001 152 2454 1
R24 [Z.E.I.G.CH]	ERDS2TJ124	001 152 2425 6
(F)		
R24	ERDS2TJ473	001 152 2363 3
R25	ERDS2TJ682	001 152 2365 1
R26, R27	ERDS2TJ392	001 152 2439 0
R28, R29 [Z.E.F.CH]	ERDS2TJ123	001 152 2424 7
R28, 29 [G.I]	ERDS2TJ682	
R30, R31	ERDS2TJ103	001 152 2347 3
R32	ERDS2TJ100	001 152 3927 5
R33	ERDS2TJ104	001 152 2348 2
R34	ERDS2TJ392	001 152 2439 0
(G, I)		
R101	ERDS2TJ104	001 152 2348 2
R102	ERDS2TJ470	001 152 2442 5
R103	ERDS2TJ472	001 152 2362 4
R106	ERDS2TJ103	001 152 2347 3
R108	ERDS2TJ821	001 152 2454 1
R109	ERDS2TJ473	001 152 2363 3
R110	ERDS2TJ562	001 152 2445 2
R111	ERDS2TJ223	001 152 2432 7
R112	ERDS2TJ272	001 152 2354 4
R113	ERDS2TJ124	001 152 2425 6
R114	ERDS2TJ153	001 152 2351 7
R115	ERDS2TJ271	001 152 3933 7
R116	ERDS2TJ473	001 152 2363 3
R117	ERDS2TJ562	001 152 2445 2
R118	ERDS2TJ470	001 152 2442 5
R122	ERDS2TJ471	001 152 2361 5
R123	ERDS2TJ2R2	001 152 3148 4
R125	ERDS2TJ101	001 152 2421 0
R201	ERDS2TJ104	001 152 2348 2
R202	ERDS2TJ470	001 152 2442 5
R203	ERDS2TJ472	001 152 2362 4
R206	ERDS2TJ103	001 152 2347 3
R208	ERDS2TJ821	001 152 2454 1
R209	ERDS2TJ473	001 152 2363 3
R210	ERDS2TJ562	001 152 2445 2
R211	ERDS2TJ223	001 152 2432 7
R212	ERDS2TJ272	001 152 2354 4
R213	ERDS2TJ124	001 152 2425 6
R214	ERDS2TJ153	001 152 2351 7
R215	ERDS2TJ271	001 152 3933 7
R216	ERDS2TJ473	001 152 2363 3
R217	ERDS2TJ562	001 152 2445 2
R218	ERDS2TJ470	001 152 2442 5
R222	ERDS2TJ471	001 152 2361 5
R223	ERDS2TJ2R2	001 152 3148 4
R225, R301	ERDS2TJ101	001 152 2421 0
R302	ERDS2TJ101	001 152 2421 0
R303	ERDS2TJ103	001 152 2347 3
R304	ERDS2TJ822	001 152 2455 0
R305	ERDS2TJ472	001 152 2362 4
R306	ERDS2TJ101	001 152 2421 0
R307	ERDS2TJ473	001 152 2363 3
R308	ERDS2TJ6R8T	
R309	ERDS2TJ561	001 152 2364 2
R310	ERDS2TJ105	001 152 2422 9
R311	ERDS2TJ222	001 152 2353 5
R312	ERDS2TJ334	001 152 2438 1
R313	ERDS2TJ101	001 152 2421 0
R314	ERDS2TJ222	001 152 2353 5
R315	ERDS2TJ102	001 152 2346 4
R316	ERDS2TJ392	001 152 2439 0
R317	ERDS2TJ104	001 152 2348 2
R318	ERDS2TJ332	001 152 2357 1
R319, R320	ERDS2TJ472	001 152 2362 4
R328	ERDS2TJ105	001 152 2422 9
R330	ERDS2TJ103	001 152 2347 3
R331	ERDS2TJ123	001 152 2424 7
R333	ERDS2TJ103	001 152 2347 3
R338	ERDS2TJ220T	
R339	ERDS2TJ680	001 152 2448 9
R341	ERDS2TJ102	001 152 2346 4
R345	ERDS2TJ561	001 152 2364 2
R401	ERDS2TJ103	001 152 2347 3
R402	ERDS2TJ223	001 152 2432 7
R403	ERDS2TJ152	001 152 2350 8
R404	ERDS2TJ153	001 152 2351 7
R405	ERDS2TJ102	001 152 2346 4
R451	ERDS2TJ221	001 152 2431 8
R501	ERDS2TJ103	001 152 2347 3
R502	ERDS2TJ223	001 152 2432 7
R503	ERDS2TJ152	001 152 2350 8
R504	ERDS2TJ153	001 152 2351 7
R505	ERDS2TJ102	001 152 2346 4
R601	ERG12ANJ220P	

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■ MECHANISM PARTS LIST

Note:

1. The letter in square brackets after the parts name indicates the color of the parts.
   [S]…Silver, [C]…Copper, [A]…Gold
2. The letter in square brackets after the Ref. No. column indicates the type of the mechanism.
   [1]…Tape-1 (Rec/Playback Deck), [2]…Tape-2 (Playback Deck)
3. There are three types of M166 used for adjustment of the head height.
   When servicing, they can be distinguished by their color.
   There are some models that do not use M166 and so do not require use of M166.
4. 🄼 mark stands for that the parts are supplied from MESA.

Ref. No.	Part No.	Part Code	Description
MECHANICAL PARTS			
M1	RFU61Z	015 630 1637 6	BUTTON BASE ASS'Y
M2	RFY541Z	015 632 4902 6	LEVER, SWITCH ACTUATOR
M3 [1]	RFY579Z	015 718 4086 8	LEVER
M4 [1]	RFY594Z	015 718 4100 7	LEVER, RECORD
M5 [1]	RFY630Z	015 718 4241 5	LEVER, PLAYBACK
M6 [1]	RFY631Z	015 718 4242 4	LEVER, REWIND
M7 [1]	RFY632Z	015 718 4243 3	LEVER, FAST FORWARD
M8 [2]	RFY633Z	015 718 4244 2	LEVER, STOP/EJECT
M9	RFY621Z	015 718 4197 2	LEVER, PAUSE
M10	RFY548Z	015 718 3505 4	LEVER, REWIND ACTUATOR
M11	RFG86Z	015 716 0091 7	CAM, PAUSE
M12	RUXC34M	015 630 2334 4	SPRING, PAUSE CAM
M13	RFS536Z	015 652 0880 9	STOPPER, PAUSE SPRING
M14	RFS462Z	015 728 1267 1	SPRING, BUTTON LEVER(C)
M15 [1]	RFU83Z	015 630 2240 9	SUB CHASSIS ASS'Y
M16 [1]	RFS463Z	015 728 1268 0	SPRING, BUTTON LEVER(A)
M17 [1]	RFS530Z	015 726 2469 9	SPRING
M18 [1]	RFS562Z	015 726 3075 9	SPRING, RECORD LEVER
M19	RFS466Z	015 726 2449 3	SPRING
M20	RFY549Z	015 718 3506 3	LEVER, AUTO STOP ACTUATOR
M21	RFS596Z	015 728 1533 2	SPRING
M22	RFS561Z	015 728 1420 0	SPRING, BUTTON LEVER(B)
M25 [2]	RFU72Z	015 630 2140 2	HEAD PANEL
M26 [1]	RFE227Z	015 652 0878 3	HEAD PANEL
M27	RFU39Z	015 630 1611 6	HEAD BASE
M28	RFY394Z	015 718 3434 2	DETECTION LEVER ASS'Y
M31 [1]	RFY397Z		ARM, ERASE HEAD
M32 [1]	RFX101Z	015 643 0652 0	PR STOPPER
M33	RFE255Z	005 500 5644 5	SCREW
M34	RFS447Z	015 726 2437 7	SPRING, AZIMUTH ADJ.
M35 [1]	RFR29Z	015 740 0302 7	PINCH ROLLER ASS'Y
M36 [1]	RFS448Z	015 728 1261 7	SPRING
M37 [1]	RFY598Z	015 718 4104 3	LEVER, STOP/EJECT
M39 [1]	RFY756ZA	015 718 4601 1	LEVER
M40	RFS532Z	015 728 1316 9	SPRING, RF PULLEY ARM
M41	RFE353ZA	005 500 7847 8	SCREW
M42	RFB62Z	015 754 0288 2	BELT, RF
M43 [2]	RFF49ZA	015 756 0451 9	FLYWHEEL
M44 [1]	RFF48ZA	015 756 0450 0	FLYWHEEL
M45 [1]	RFJ67ZA	015 630 2445 8	CHASSIS ASS'Y
M46 [1]	RFY723ZA	015 718 4459 9	LEVER
M47	RFG99ZA	015 745 1088 5	GEAR
M48 [1]	RFS450Z	015 726 2440 2	SPRING, TAKEUP REEL TABLE
M49	RFG62Z	015 745 0850 9	GEAR, FAST FORWARD
M50	RFS537Z	015 726 2473 3	SPRING, BACK TENSION
M51	RFJ50Z	015 765 0488 5	SUPPLY REEL TABLE ASS'Y
M52	RFJ53Z	015 765 0526 6	TAKEUP REEL TABLE ASS'Y
M53 [1]	RFY716Z	015 718 4355 6	LEVER, ERASE SAFETY
M54	RFS563Z	015 728 1421 9	SPRING, BACK TENSION
M55	RFD228Z	015 641 1320 3	BRACKET, MOTER
M56	SMQ2504	016 650 0368 2	CUSHION, MOTOR
M57	SMQ4918	005 500 4521 9	SCREW
M59	RFB63Z	015 754 0289 1	BELT, MAIN
M61 [2]	RJH2E12X	001 270 1124 1	PLAY BACK HEAD, PLAYBACK
M62	RFY685Z	015 718 4311 8	LEVER, STOP/EJECT SLIDE
M63	RFS564Z	015 728 1422 8	SPRING
M64	RFS467Z	015 727 0783 5	SPRING, CASSETTE HOLDER
M65	RFI41Z	015 653 1108 9	MAT-B
M66 [1]	RJH2E9X	001 270 1135 8	HEAD, R/P
M67 [1]	RJH2C12XZ	001 270 1359 4	HEAD, ERASE
M68	RFM107ZA	002 310 2409 8	DC MOTOR
M69	RFI35Z	015 653 1073 3	MAT-A
M70 [1]	RFE229Z	005 500 4351 9	SCREW(RECORD LEVER MT'G)
M71	XTN2+3B	005 501 1408 6	SCREW
M72	XTN2+4B	005 501 0252 2	
M73	XTN2+4FN	005 501 2157 2	TAPPING SCREW
M75	XSN2+6	005 500 1297 0	
M77	XSN2+8	005 500 1301 1	SCREW
M78	RFE230Z	005 500 4352 8	SCREW, AZIMUTH ADJ.
M79 [2]	RFY580Z	015 718 4087 7	LEVER
M82	RFN143Z	005 513 3263 1	WASHER
M83	RFN142Z	005 513 3262 2	WASHER
M84	RFN123Z	005 513 3242 6	WASHER(FLYWHEEL MT'G)
M85	RFE354ZA	005 513 4851 3	WASHER
M87	RFY636Z	015 718 4247 9	LEVER, OPERATION
M88	RFD252Z	015 702 3716 1	FRAME, BUTTON
M89	RFY525Z	015 713 1854 9	SHAFT, BUTTON LEVER
M90	RFE242Z	005 500 5003 2	SCREW(BUTTON FRAME MT'G)
M91	RFY582Z	015 718 4089 5	LEVER, P KICK (B)
M92	RFY583Z	015 718 4090 2	LEVER, P KICK (A)
M93	RFE239Z	005 500 5057 8	SCREW(P KICK (A) MT'G)
M95	RFS687ZA	015 726 3022 2	SPRING
M96 [2]	RFD230Z	015 641 1322 1	BRACKET, SWITCH
M97 [2]	RFE102Z	005 500 4308 2	SCREW(LEAF SWITCH MT'G)
M101 [2]	RFS566Z	015 726 3076 8	SPRING
M102 [2]	RFY596Z	018 718 4102 1	LEVER, REWIND
M104 [2]	RFY597Z	015 718 4103 4	LEVER, FAST FORWARD
M105 [2]	RFY595Z	015 718 4101 6	LEVER, PLAYBACK
M106	RFS567Z	015 728 1424 6	SPRING
M107 [2]	RFU70Z	015 630 2138 6	SUB CHASSIS ASS'Y
M109 [2]	RFY592Z	015 718 4098 4	LEVER
M110	RFY591Z	015 718 4097 5	LEVER, E KICK
M111	RFN167Z	005 513 4020 4	WASHER
M113 [2]	RFR26Z	015 740 0299 5	PINCH ROLLER ASS'Y
M114 [2]	RFS569Z	015 728 1426 4	SPRING, PINCH ROLLER
M115 [2]	RFS570Z	015 728 1427 3	SPRING, TAKEUP REEL TABLE
M117 [2]	RFJ68ZA	015 630 2444 9	CHASSIS ASS'Y
M120 [1]	RFS535Z	015 728 1317 8	SPRING, ERASE HEAD ARM
M122	RFX134Z	015 643 0956 7	COLLAR(B)
M127 [2]	RFY589Z	015 718 4095 7	LEVER, RC
M128 [2]	RFY573Z	015 718 4085 9	LEVER, RC SLIDE
M129 [2]	RFX130Z	015 643 0952 1	COLLAR
M130 [2]	RFS572Z	015 728 1429 1	SPRING, RC
M133 [2]	XQS2+25	005 500 4642 1	SCREW(RC LEVER MT'G)
M135 [2]	XUC2FT	005 512 0126 6	STOP RING
M136	RFE221Z	005 500 4348 4	SCREW
M137 [1]	RFD232Z	015 641 1324 9	BRACKET, PAUSE PREVENTION
M138 [1]	RFE222Z	005 500 4349 3	SCREW
M139	RFE245Z	005 500 5048 9	SCREW
M140	RFE279Z	015 641 1343 6	METAL, GUIDE
M143	RFI37Z	015 748 0037 5	RUBBER, BRAKE
M144	RFS629Z	015 728 1558 3	SPRING, BRAKE LEVER
M145	RFX133Z	015 643 0955 8	COLLAR, BRAKE LEVER
M146	RFY717Z	015 718 4356 5	LEVER, BRAKE
M150	RBC888XA-0	015 702 4289 5	BUTTON, PAUSE [S] 🄼
M151	RBC887XA-0	015 702 4290 2	BUTTON, STOP EJECT [S] 🄼
M152	RBC886XA-0	015 702 4291 1	BUTTON, FF [S] 🄼
M153	RBC885XA-0	015 702 4292 0	BUTTON, REWIND [S] 🄼
M154 [1]	RBC884XA-0	015 702 4293 9	BUTTON, PLAYBACK [S] 🄼
M155 [1]	RBC883XA-0	015 702 4294 8	BUTTON, RECORD [S] 🄼
M156 [2]	RBC889XA-0	015 702 4288 6	BUTTON, PLAYBACK [S] 🄼
M163	RFE280ZA		SCREW
M164	RFD269Z		BRACKET
M165	RFE297Z		WASHER
M166	RFE313Z		WASHER [C]
M166	RFE314Z		WASHER [A]
M166	RFE315Z		WASHER [S]
M167	RFN170Z		WASHER

■ REPLACEMENT PART LIST

Note:

1. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
2. The letter in square brackets in the Ref. No. column indicates the shipping destination.
   [Z]…For all European areas except [E.F.I.G].　[F]…For France　[G]…For F.R. Germany
   [E]…For United Kingdom.　[I]…For Italy and Finland　[CH]…For Chile
3. 🄼 mark stands for that the parts are supplied from MESA.

Ref. No.	Part No.	Part Code	Description
INTEGLATED CIRCUITS			
IC1	AN7205	001 061 0362 8	IC
IC2	BA4236L	001 061 0259 6	IC
IC3	RVIBA1332L	001 060 6555 2	IC
IC301	BA3402M	001 061 0833 8	IC
IC302	BA3308M	001 061 2544 6	IC
IC303	BA3822LS	001 061 1434 5	IC
IC304	LA4108R	001 060 7747 2	IC
TRANSISTORS			
Q101, Q201	2SC3311RTA		TRANSISTOR
Q302	2SC3311RTA		TRANSISTOR
Q303	2SD1302	001 030 2519 0	TRANSISTOR
Q304	2SC3311RTA		TRANSISTOR
Q305	2SC1740SLNST	001 030 4248 6	TRANSISTOR
Q306	2SC3311RTA		TRANSISTOR
Q307	UN4214	001 030 4835 3	TRANSISTOR
Q308	2SK381CD		TRANSISTOR
Q312	2SD1302	001 030 2519 0	TRANSISTOR
DIODES			
D2, D3	MA165	001 032 0494 0	DIODE
D301, D302	MA165	001 032 0494 0	DIODE
D303, D304	MA165	001 032 0494 0	DIODE
D308	MA4068MTA		DIODE
D451	LN012336PH	001 032 8950 5	DIODE
D601, D602	RVD1SR35	001 032 6336 9	DIODE
D603, D604	RVD1SR35	001 032 6336 9	DIODE
D605, D606	RVD1SR35	001 032 6336 9	DIODE
COILS			
L2 (G, I)	RL04N233-0	001 211 3632 9	COIL
L2 (Z.E.F.CH)	RL04Y93W-0	001 211 2466 9	OSCILLATOR COIL
L3	RLQY30S1	001 210 9809 3	CHOKE COIL
L4	RLF6W9	001 214 1430 0	FERRITE ANTENNA COIL
L5	RLA3B41	001 210 9288 6	COIL, SW ANT
L7	RL01B13	001 211 2509 5	OSILLATOR COIL
L8	RL02B108	001 211 0900 0	OSCILLATOR COIL
L9	RL03B87	001 211 0912 6	OSCILLATOR COIL
L101, L201	RLQY30S1	001 210 9809 3	CHOKE COIL
L301	RL09B17	001 211 0985 9	COIL
L302	RLQY30S1	001 210 9809 3	CHOKE COIL
L303	RLQZD101K	001 210 9884 2	COIL
L601, L602 (G, I)	RLQZB470K	001 210 9876 2	COIL
TRANSFORMERS			
T1	RLI4B153	001 215 2499 0	I.F.T
T2	RLI2B153	001 215 2349 3	I.F.T
T3	RLI4B153	001 215 2499 0	I.F.T
T601 ⚠ (E)	RLT5K3A8A-S		POWER TRANSFORMER 🄼
T601 ⚠ (Z.F.I.G.CH)	RLT5K3G17A-S		POWER TRANSFORMER 🄼
VARIABLE CAPACITORS			
VC1	RCV4RC2RA	001 141 0488 0	VARIABLE CAPACITOR
VC5	RCVMFTPC17	001 142 0497 4	VARIABLE CAPACITOR
TRIMMER CAPACITORS			
CT2	RCVPL20A	001 142 0500 6	TRIMMER
CT6, CT7	RCV2PL10A	001 142 0513 1	TRIMMER
CT9 (G, I)	RCVCTZ3210	001 142 0327 1	TRIMMER CAPACITOR
VARIABLE RESISTORS			
VR1	EVND4AA00B14	001 180 2242 3	VARIABLE RESISTOR
VR301	EVND1AA00B14	001 180 2550 4	VARIABLE RESISTOR
VR451, VR452	EWASA3VABG54	001 174 8695 0	VARIABLE RESISTOR
VR453, VR454	EWASA3VABG54	001 174 8695 0	VARIABLE RESISTOR
VR455	EWASA3VABG54	001 174 8695 0	VARIABLE RESISTOR
VR456	EWASE3BABB54	001 174 8696 9	VARIABLE RESISTOR
VR457	EWASJ3VABG15		VARIABLE RESISTOR
FILTERS			
CF1	RVF107WDZ	001 241 1112 8	CERAMIC FILTER
CF2 (Z.F.I.G.CH)	RVFSFZ455JZ	001 241 1111 9	CERAMIC FILTER
CF2 (E)	RVFSFZ470JL	001 241 1147 7	CERAMIC FILTER
COMPONENTS COMBINATION			
Z1	EXCFF76108L	001 230 1587 8	COMPONENT COMBINATIONS
SWITCHES			
S1	RSS4H02Z	003 431 2847 8	SWITCH, BAND
S2	RSS3B22Z	003 431 2788 2	SWITCH, EDITING/B.P
S3	RSS3D13Z	003 431 2815 6	SWITCH, FUNCTION
S4	RSH2H03U	003 435 5968 8	SWITCH, R/P
S5, S6	RFA77ZA	003 434 1046 2	LEAF SWITCH,
S7	RFA73Z	003 434 1014 0	LEAF SWITCH
JACKS			
J1	RJF1098ZA-H		JACK, SPEAKER 🄼
J2	RJF1099Z	003 410 7367 6	JACK, LINE IN
J3	RJJD7S2Z	003 400 6898 4	JACK, HEADPHONE
J4 (S8) ⚠ (Z.F.I.G.CH)	RJJ1A4ZD		JACK, AC
J4 (S8) ⚠ (E)	RJJ1A5Z	003 400 6054 0	JACK, AC
FUSES			
F1 ⚠	XBA2C12TB0U	002 380 1645 0	FUSE, T 1.25A

RESISTORS & CAPACITORS

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)

ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity

ECEA	50	M	R47
Type	Voltage	Peculiarity	Value (0.47µF)

Resistor Type		Wattage	Tolerance
ERD:	Carbon Resistor	10 : 1/8W	F : ±1%
ERC:	Solid Resistor	25 : 1/4W	G : ±2%
ERF:	Incombustible	50 : 1/2W	J : ±5%
	Box-Shaped	18 : 1/8W	K : ±10%
	Wire-Wound	14 : 1/4W	M : ±20%
	Resistor	12 : 1/2W	
ERG:	Metal Oxide-Film	1 : 1W	
	Resistor	2 : 2W	
ERM:	Wire-Wound	3 : 3W	
	Resistor	S1 : 1/2W	
ERO:	Superstable	S2 : 1/4W	
	Metal Film	6G : 1/10W	
	Resistor	8G : 1/8W	
ERX:	Metal-Film		
	Resistor		
RRJ: ERJ:	Chip Resistor		

Capacitor Type		Voltage	Tolerance
ECCD:	Ceramic Capacitor	(ECCD, ECKD Type)	K : ±10%
	(Chitacon)	1H : 50V DC 2H : 500V DC	M : ±20%
ECKD:	Ceramic Capacitor	(ECFD Type)	Z : +80 −20 %
	(Chitabari)	C : 12V DC D : 25V DC	
ECFD:	Semiconductor	E : 50V DC	J : ±5%
	Ceramic Capacitor	(ECQ Type)	G : ±2%
ECE□:	Electrolytic Capacitor	05 : 50WV DC 1 : 100WV DC	F : ±1%
ECS□:	Tantalum Fixed	(ECE, ECS Type)	C : ±0.25pF
	Electrolytic Capacitor	0G : 4V 0J : 6.3V	D : ±0.5pF
ECQ□:	Polystyrenc Film	1A : 10V 1C : 16V	F : ±1pF
	Capacitor	1E : 25V 1V : 35V	
ECQS:	Polystyrene Film	1H : 50V 1J : 63V	
	Capacitor	2A : 100V	
ECQS:	Polypropylene Film		
	Capacitor		
ECQV:	T.F Capacitor		
ECU□: RCU□:	Chip Capacitor		
ECBT:	Cylindrical Ceramic Capacitor		

※ Capacity are in microtarads (µF) unless specified otherwise, P=Pico-farads.

※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Note:

1. The letter in square brackets in the Ref. No. column indicates the shipping destination.

[Z]…For all European areas except [E.F.I.G]. [F]…For France [G]…For F.R. Germany

[E]…For United Kingdom. [I]…For Italy and Finland [CH]…For Chile

Ref. No.	Part No.	Part Code
CAPACITORS		
C1	RCBS1H102KB	001 103 5571 0
C2	ECCD1H470KC	
C3	RCBC1H4R7KC	001 103 5542 5
C4	RCBS1H180JC	001 103 5591 6
C5	ECCT1H100KC	
C6	ECCD1H470KC	
C7	ECCD1H331K	001 103 0578 3
C8	RCBS1H102KB	001 103 5571 0
C9	RCBS1H100JC	001 103 5563 0
C10	RCBS1H180JC	001 103 5591 6
C11	RCBC1H470JL	001 103 7090 4
C12	RCBS1H220JL	001 103 5601 1
(Z.E.F.CH)		
C13	RCBS1H102KB	001 103 5571 0
C14	ECCT1H100KC	
C15	RCBS1H8R2KC	001 103 5644 0
C16	ECCT1H150KC	
C17	ECQP2A151JZ	001 106 3519 7
C18	ECQP2A361JZ	001 106 3537 5
C19	ECQP2A392JZ	001 106 3540 0
C20	ECFT1C333MD	001 108 0569 9
C21	ECCT1H120KC	
C22	ECQP2A221JZ	001 106 3527 7
C23	ECCT1H070DC	
C24	ECKF1H102KB	001 103 1796 1
C30	ECFT1C333MD	001 108 0569 9
C31	ECEA1HU2R2	001 120 3253 2
C35	ECFT1C223MD	001 108 0565 3
C36	ECEA0JU101B	
C38	ECFT1C103MD	001 108 0560 8
C40	ECFT1C333MD	001 108 0569 9
C41, C42	ECFT1C223MD	001 108 0565 3
C43	ECCD1H331K	001 103 0578 3
C44	ECEA50ZR47E	001 120 1287 0
C45	ECEA1HU4R7	
C46	ECEA1HU010	001 120 2960 6
C47	ECFT1C153MD	001 108 0564 4
C48	ECEA50ZR47E	001 120 1287 0
C49	ECEA1CU100	001 120 2958 0
C50	ECEA1HU2R2	001 120 3253 2
C51	ECQP2A102JZT	
C52, C53	ECFT1C153MD	001 108 0564 4

Ref. No.	Part No.	Part Code
C54, C55	ECEA1HU010	001 120 2960 6
C56	ECCT1H180KT	
(G, I)		
C101, C102	ECKD1H471KB	001 103 1551 0
C103	ECEA0JU470	001 120 3858 9
C105	ECFD1C333KDY	
C106	ECEA50ZR47E	001 120 1287 0
C107	ECFT1C223MD	001 108 0565 3
C108	ECFT1C152KDY	
C109	ECEA0JU470	001 120 3858 9
C110	ECEA1HU010	001 120 2960 6
C111	ECCD1H101K	001 103 0341 2
C112	ECFT1C333MD	001 108 0569 9
C121	ECKF1H102KB	001 103 1796 1
C122	ECEA0JU101B	
C123	ECEA1EU470B	
C124	ECEA1HU010	001 120 2960 6
C125	ECFV1E473MD	001 108 0700 4
C126	ECEA1AU471	001 120 3728 8
C127	ECFV1C104MD	001 108 0691 8
C201, C202	ECKD1H471KB	001 103 1551 0
C203	ECEA0JU470	001 120 3858 9
C205	ECFD1C333KDY	
C206	ECEA50ZR47E	001 120 1287 0
C207	ECFT1C223MD	001 108 0565 3
C208	ECFT1C152KDY	
C209	ECEA0JU470	001 120 3858 9
C210	ECEA1HU010	001 120 2960 6
C211	ECCD1H101K	001 103 0341 2
C212	ECFT1C333MD	001 108 0569 9
C221	ECKF1H102KB	001 103 1796 1
C222	ECEA0JU101B	
C223	ECEA1EU470B	
C224	ECEA1HU010	001 120 2960 6
C225	ECFV1E473MD	001 108 0700 4
C226	ECEA1AU471	001 120 3728 8
C227	ECFV1C104MD	001 108 0691 8
C301	ECEA1CU100	001 120 2958 0
C302	ECEA0JU221	001 120 2925 9
C303	ECEA0JU330	001 120 3857 0
C304	ECCD1H101K	001 103 0341 2
C305	ECFV1C104MD	001 108 0691 8
C306	ECCT1H181K	

Ref. No.	Part No.	Part Code
C307	ECKF1H102KB	001 103 1796 1
C308	ECQS2B272KZ	001 106 3594 6
C309	ECEA0JU221	001 120 2925 9
C310, C311	ECFT1C223MD	001 108 0565 3
C312	ECFT1C103MD	001 108 0560 8
C314	ECKD1H471KB	001 103 1551 0
C315	ECEA1HU010	001 120 2960 6
C316	ECKD1H471KB	001 103 1551 0
C317	ECEA0JU101B	
C318	ECFT1C223MD	001 108 0565 3
C319, C321	ECEA1CU100	001 120 2958 0
C322	ECEA1CU100	001 120 2958 0
C323	ECEA0JU471	001 120 3620 9
C331	ECEA1CV221SE	
C339	ECEA1CU330	001 120 2834 1
C340	ECEA1CU220	001 120 2906 2
C341	ECEA1AU471	001 120 3728 8
C342	ECEA1CU332	001 120 3201 4
C343, C344	ECKD1H103ZF	001 103 1449 7
C401, C402	ECEA1HU010	001 120 2960 6
C403	ECKF1H102KB	001 103 1796 1
C404	ECFV1E473MD	001 108 0700 4
C405	ECKT1H332MD	001 103 1856 6
C406	ECEA1HU0R1	001 120 3250 5
C407	ECFT1C103MD	001 108 0560 8
C408	ECEA1HUR33	001 120 3248 9
C409	ECFV1E473MD	001 108 0700 4
C410	ECEA1HU010	001 120 2960 6
C411	ECFT1C223MD	001 108 0565 3
C412	ECEA1CU100	001 120 2958 0
C413	ECKD1H471KB	001 103 1551 0
C451	ECEA0JU471	001 120 3620 9
C501, C502	ECEA1HU010	001 120 2960 6
C503	ECKF1H102KB	001 103 1796 1
C504	ECFV1E473MD	001 108 0700 4
C505	ECKT1H332MD	001 103 1856 6
C506	ECEA1HU0R1	001 120 3250 5
C507	ECFT1C103MD	001 108 0560 8
C508	ECEA1HUR33	001 120 3248 9
C509	ECFV1E473MD	001 108 0700 4
C510	ECEA1HU010	001 120 2960 6
C511	ECFT1C223MD	001 108 0565 3
C512	ECEA1CU100	001 120 2958 0

D

Ref. No.	Part No.	Part Code
C513	ECKD1H471KB	001 103 1551 0
C601, C602	ECKD1H103ZF	001 103 1449 7
C603, C604	ECKD1H103ZF	001 103 1449 7
C605, C606	ECKD1H103ZF	001 103 1449 7
C607	ECEA1CV221SE	
RESISTORS		
R1	ERDS2TJ470	001 152 2442 5
R2	ERDS2TJ101	001 152 2421 0
R3	ERDS2TJ332	001 152 2357 1
R4	ERDS2TJ470	001 152 2442 5
R8	ERDS2TJ221	001 152 2431 8
R10	ERDS2TJ101	001 152 2421 0
R13	ERDS2TJ330	001 152 3935 5
R16	ERDS2TJ272	001 152 2354 4
(F)		
R16	ERDS2TJ392	001 152 2439 0
(Z.E.G.I.CH)		
R17 [Z.E.F.CH]	ERDS2TJ272	001 152 2354 4
R17 [G.I]	ERDS2TJ682	
R18	ERDS2TJ102	001 152 2346 4
R19, R20	ERDS2TJ680	001 152 2448 9
R21	ERDS2TJ472	001 152 2362 4
R22, R23	ERDS2TJ821	001 152 2454 1
R24 [Z.E.I.G.CH]	ERDS2TJ124	001 152 2425 6
(F)		
R24	ERDS2TJ473	001 152 2363 3
R25	ERDS2TJ682	001 152 2365 1
R26, R27	ERDS2TJ392	001 152 2439 0
R28, R29 [Z.E.F.CH]	ERDS2TJ123	001 152 2424 7
R28, 29 [G.I]	ERDS2TJ682	
R30, R31	ERDS2TJ103	001 152 2347 3
R32	ERDS2TJ100	001 152 3927 5
R33	ERDS2TJ104	001 152 2348 2
R34	ERDS2TJ392	001 152 2439 0
(G, I)		
R101	ERDS2TJ104	001 152 2348 2
R102	ERDS2TJ470	001 152 2442 5

Ref. No.	Part No.	Part Code
R103	ERDS2TJ472	001 152 2362 4
R106	ERDS2TJ103	001 152 2347 3
R108	ERDS2TJ821	001 152 2454 1
R109	ERDS2TJ473	001 152 2363 3
R110	ERDS2TJ562	001 152 2445 2
R111	ERDS2TJ223	001 152 2432 7
R112	ERDS2TJ272	001 152 2354 4
R113	ERDS2TJ124	001 152 2425 6
R114	ERDS2TJ153	001 152 2351 7
R115	ERDS2TJ271	001 152 3933 7
R116	ERDS2TJ473	001 152 2363 3
R117	ERDS2TJ562	001 152 2445 2
R118	ERDS2TJ470	001 152 2442 5
R122	ERDS2TJ471	001 152 2361 5
R123	ERDS2TJ2R2	001 152 3148 4
R125	ERDS2TJ101	001 152 2421 0
R201	ERDS2TJ104	001 152 2348 2
R202	ERDS2TJ470	001 152 2442 5
R203	ERDS2TJ472	001 152 2362 4
R206	ERDS2TJ103	001 152 2347 3
R208	ERDS2TJ821	001 152 2454 1
R209	ERDS2TJ473	001 152 2363 3
R210	ERDS2TJ562	001 152 2445 2
R211	ERDS2TJ223	001 152 2432 7
R212	ERDS2TJ272	001 152 2354 4
R213	ERDS2TJ124	001 152 2425 6
R214	ERDS2TJ153	001 152 2351 7
R215	ERDS2TJ271	001 152 3933 7
R216	ERDS2TJ473	001 152 2363 3
R217	ERDS2TJ562	001 152 2445 2
R218	ERDS2TJ470	001 152 2442 5
R222	ERDS2TJ471	001 152 2361 5
R223	ERDS2TJ2R2	001 152 3148 4
R225, R301	ERDS2TJ101	001 152 2421 0
R302	ERDS2TJ101	001 152 2421 0
R303	ERDS2TJ103	001 152 2347 3

Ref. No.	Part No.	Part Code
R304	ERDS2TJ822	001 152 2455 0
R305	ERDS2TJ472	001 152 2362 4
R306	ERDS2TJ101	001 152 2421 0
R307	ERDS2TJ473	001 152 2363 3
R308	ERDS2TJ6R8T	
R309	ERDS2TJ561	001 152 2364 2
R310	ERDS2TJ105	001 152 2422 9
R311	ERDS2TJ222	001 152 2353 5
R312	ERDS2TJ334	001 152 2438 1
R313	ERDS2TJ101	001 152 2421 0
R314	ERDS2TJ222	001 152 2353 5
R315	ERDS2TJ102	001 152 2346 4
R316	ERDS2TJ392	001 152 2439 0
R317	ERDS2TJ104	001 152 2348 2
R318	ERDS2TJ332	001 152 2357 1
R319, R320	ERDS2TJ472	001 152 2362 4
R328	ERDS2TJ105	001 152 2422 9
R330	ERDS2TJ103	001 152 2347 3
R331	ERDS2TJ123	001 152 2424 7
R333	ERDS2TJ103	001 152 2347 3
R338	ERDS2TJ220T	
R339	ERDS2TJ680	001 152 2448 9
R341	ERDS2TJ102	001 152 2346 4
R345	ERDS2TJ561	001 152 2364 2
R401	ERDS2TJ103	001 152 2347 3
R402	ERDS2TJ223	001 152 2432 7
R403	ERDS2TJ152	001 152 2350 8
R404	ERDS2TJ153	001 152 2351 7
R405	ERDS2TJ102	001 152 2346 4
R451	ERDS2TJ221	001 152 2431 8
R501	ERDS2TJ103	001 152 2347 3
R502	ERDS2TJ223	001 152 2432 7
R503	ERDS2TJ152	001 152 2350 8
R504	ERDS2TJ153	001 152 2351 7
R505	ERDS2TJ102	001 152 2346 4
R601	ERG12ANJ220P	

MESA

H.Y

Z	E	F	I	G	CH

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